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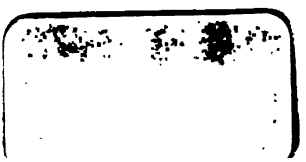

THE METEOROLOGICAL RECORD.

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ERRATA.

Aspley Guise	May	Rainfall, *for* 1·08 in. *read* 0·98 in.
Burghill	March	,, ,, 1·56 in. ,, 1·58 in.
,,	April	,, ,, 0·68 in. ,, 0·67 in.
Buxton	March	,, ,, 6·87 ins. ,, 7·18 ins.
,,	,,	No. of rainy days, *for* 15 *read* 16
,,	September	Rainfall, *for* 2·86 ins. *read* 2·35 ins.
Carmarthen	June	,, ,, 8·97 ins. ,, 8·91 ins.
Cheltenham	January	,, ,, 1·55 in. ,, 1·20 in.
,,	,,	Greatest Rainfall, *for* 0·90 in. *read* 0·58 in.
Chester	August	Rainfall, *for* 8·50 ins. *read* 8·86 ins.
Cockermouth	January	,, ,, 0·78 in. ,, 0·81 in.
,,	,,	No. of rainy days, *for* 8 *read* 9
,,	May	Rainfall, *for* 8·50 ins. *read* 8·86 ins.
,,	,,	No. of rainy days, *for* 15 *read* 14
,,	July	Rainfall, *for* 4·68 ins. *read* 4·59 ins.
,,	,,	No. of rainy days, *for* 21 *read* 20
Cranleigh	January	Rainfall, *for* 1·48 in. *read* 1·44 in.
,,	,,	No. of rainy days, *for* 7 *read* 8
,,	March	Rainfall, *for* 2·86 ins. *read* 2·45 ins.
Croydon	January	,, ,, 1·27 in. ,, 1·49 in.
,,	,,	Greatest Rainfall, *for* 0·58 in. *read* 0·75 in.
Dartmoor	March	Absolute max., *for* 53°·6 *read* 56°·8
Isleworth	January	Rainfall, *for* 1·64 in. *read* 1·88 in.
Leaton	August	,, ,, 8·67 ins. ,, 8·62 ins.
,,	,,	No. of rainy days, *for* 20 *read* 19
Scaleby	January	Rainfall, *for* 0·91 in. *read* 0·95 in.
,,	,,	No. of rainy days, *for* 10 *read* 11
Southend	May	Rainfall, *for* 0·71 in. *read* 0·72 in.
Throcking	,,	Rainfall, *for* 1·01 in. *read* 1·52 in.
,,	,,	No. of rainy days, *for* 13 *read* 12
Worthing	,,	Rainfall, *for* 2·83 ins. *read* 1·83 in.

Buxton	August 1879	Absolute min., *for* 41°·1 on the 31st *read* 40°·0 on the 2nd

INTRODUCTION.

The Monthly and Yearly Abstracts of Observations made at the Second Order and Climatological Stations, and the Report on the Meteorology of England, were formerly printed as an Appendix to the *Quarterly Journal of the Meteorological Society*.

As the number of stations has considerably increased, more time is required for verifying and discussing the observations; it has therefore been decided by the Council not to delay the issue of the *Quarterly Journal*, but to publish the Reports on the Meteorology of England in a separate form under the title of *The Meteorological Record*, of which, therefore, this is the first volume.

The monthly Tables on pages 8, 10, 12, &c., give the results of the observations at the Second Order Stations, where the readings are taken *twice* daily, viz. at 9 a.m. and 9 p.m.

Column 1 is the mean of the readings of the barometer at 9 a.m. and 9 p.m., corrected for temperature and reduced to sea-level.

Column 4 is the mean of the readings of the dry-bulb thermometer at 9 a.m. and 9 p.m.

Columns 5 to 10. The maximum and minimum thermometers are read and set at 9 p.m., and the readings entered to the same day on which they are observed.

Columns 13 and 14. The relative humidity is calculated by dividing the elastic force of vapour, at the temperature of the dew-point, for the month, by that at the temperature of the air (*i.e.* dry-bulb reading).

Columns 15 and 16. The amount of cloud is estimated according to the scale 0 to 10; 0 representing a cloudless sky, and 10 when the whole of the visible heavens is completely covered or overcast.

Columns 17 to 20. The rain is measured at 9 a.m., and the amount entered to the *previous* day. A fall of 0·006 inch and above constitutes a day of *rain*.

Column 21. When any snow falls it is entered as a day of *snow*.

Columns 22 and 23. When the mean of the 9 a.m. and 9 p.m. observations of the amount of cloud is less than 2·0, this is called a day of *clear sky*, but when the mean is above 8·0 it is called an *overcast* day.

Column 24. When the force of the wind is 7 and above (on the scale 0 to 12) this is counted as a *gale*.

Columns 25 to 33 give the sums of the observations of the direction of the wind at 9 a m. and 9 p.m.

The Tables on pages 9, 11, 13, &c., show in a graphic manner the phenomena observed at the Second Order Stations on each day of the month, and in which ● indicates rain ; ✱ snow ; ▲ hail ; ≡ fog ; ⊼ thunderstorm ; ⊤ thunder ; ≺ lightning ; ○ solar halo ; ☬ lunar halo ; and ⩔ aurora.

The Tables on pages 14, 15, 16, &c., contain the results of the observations at the Climatological Stations, where the readings are taken *once* daily, viz. at 9 a.m. At these stations the minimum temperature is entered to the morning on which it is observed, while the maximum temperature and rainfall are entered to the *previous* day.

In these Tables the climatological results from the Second Order Stations are also included, but as the maximum and minimum thermometers are read at 9 p.m. and not at 9 a.m., the names of the stations are printed in italics.

The following is a list of the Stations, together with the county, the height above sea-level, and the name of the observer. The names of the Second Order Stations are printed in italics.

List of the Stations.

Station.	County	Above Sea. Feet.	Authority.
Alnwick	Northumberland	213	J. Lingwood, F.M.S.
Alston	Cumberland	1145	T. W. Dickinson.
Ashburton	Devon	584	F. Amery.
Aspley Guise, Woburn	Bedford	433	E. E. Dymond, J.P., F.M.S.
Babbacombe	Devon	293	E. E. Glyde, F.M.S.
Beacon Stoop, Weaver Hills	Stafford	1216	C. L. Wragge, F.M.S., F.R.G.S.
Beddington	Surrey	102	S. Rostron, F.M.S.
Belper	Derby	344	J. Hunter, Jun., Assoc.M.Inst.C.E., F.M.S.
Blackburn	Lancashire	513	W. B. Bryan, M.Inst.C.E., F.M.S.
Blackpool	Lancashire	31	C. T. Ward, B.A., F.M.S.
Bournemouth	Hants	134	Admiral Sir B. J. Sulivan, K.C.B.
Brampford Speke	Devon	140	W. H. Gamlen.
Bridgetown, Totnes	Devon	107	T. H. Edmonds, F.M.S.
Bude	Cornwall	16	J. Arthur.
Burghill, Hereford	Hereford	275	T. A. Chapman, M.D.
Buxton	Derby	987	E. J. Sykes, M.B., F.R.A.S., F.M.S.
Cardiff	Glamorgan	43	W. Adams, M.Inst.C.E., F.M.S.
Carmarthen	Carmarthen	188	G. J. Hearder, M.D.
Cheadle (Tean)	Stafford	646	J. C. Philips, J.P., F.M.S.
Cheltenham	Gloucester	184	R. Tyrer, B.A., F.M.S.
Chester	Cheshire	65	A. O. Walker, F.L.S., F.M.S.
Churchstoke	Montgomery	549	P. Wright, F.C.S., F.M.S.
Cockermouth	Cumberland	144	H. Dodgson, M.D., F.R.A.S., F.M.S.
Colwyn Bay	Denbigh	180	A. O. Walker, F.L.S., F.M.S.
Cranleigh	Surrey	370	J. Bryan.
Cromer	Norfolk	90	J. Cooper, F.R.C.S.
Croydon (Addiscombe)	Surrey	201	E. Mawley, F.M.S.
Cullompton	Devon	202	T. Turner, J.P., F.M.S.
Dartmoor (Prince Town)	Devon	1360	W. H Tooker.
Downside, Radstock	Somerset	592	Rev. T. L. Almond, O.S.B., F.M.S.
Eastbourne	Sussex	24	S. Fretton, F.M.S.
Falmouth	Cornwall	175	W. L. Fox, F.M.S.
Farley	Stafford	638	C. L. Wragge, F.M.S., F.R.G.S.
Finchley	Middlesex	275	H. C. Stephens, F.C.S., F.M.S.
Guernsey	Channel Isles	180	F. E. Carey, M.D., F.M.S.
Harestock, Winchester	Hants	304	Lt. Col. H. S. Knight, F.R.A.S., F.M.S.
Helston	Cornwall	185	J. Gill.
Hillington	Norfolk	88	Rev. H. E. B. Ffolkes, M.A., F.M.S.
Hodsock, Worksop	Notts	56	H. Mellish, F.M.S.

List of the Stations—*Continued.*

Station.	County.	Above Sea. Feet.	Authority.
Ilfracombe	Devon	25	W. M. Tattam.
Isleworth	Middlesex	68	Miss E. A. Ormerod, F.M.S.
Kelstern	Lincoln	388	D. G. Briggs, F.M.S.
Kenilworth	Warwick	290	F. Slade, Assoc.M.Inst.C.E., F.M.S.
Killarney	Kerry	91	Rev. G. R. Wynne, M.A., F.M.S.
Leaton, Shrewsbury	Salop	266	Rev. E. P. Pigott, M.A., F.M.S.
Limavady	Londonderry	65	T. A. Mercer.
Llandudno	Carnarvon	79	J. Nicoll, J.P., M.D., F.M.S.
Loughborough	Leicester	169	W. Berridge, F.M.S.
Lowestoft	Suffolk	85	S. H. Miller, F.R.A.S., F.M.S.
Macclesfield	Cheshire	501	J. Dale.
Maker, Devonport	Cornwall	290	Rev. P. H. Newnham, M A., F.M.S.
Mansfield	Notts	349	W. Tyrer, F.M.S.
Marlborough	Wilts	471	Rev. T. A. Preston, M.A., F.M.S.
Norwood	Surrey	184	W. Marriott, F.M.S.
Oakamoor	Stafford	350	E. E. Kettle.
Portsmouth	Hants	20	R. E. Power, L.R.C.P.
Ramsgate	Kent	105	Revs. T. E. Egan and J. C. Swanson, O.S.B.
Regent's Park	Middlesex	125	W. Sowerby, F.L.S., F.M.S.
Ross	Hereford	213	H. Southall, F.M.S.
Scaleby	Cumberland	111	R. A. Allison, F.M.S.
Scarborough	Yorkshire	130	F. Shaw, F.M.S.
Scarborough (St. Nicholas)	Yorkshire	157	J. McClelland.
Seathwaite	Cumberland	389	W. Dixon.
Sidmouth	Devon	186	W. T. Radford, M.D., F.R.A.S., F.M.S.
Somerleyton	Suffolk	50	Rev. C. J. Stewart, M.A., F.M.S.
Southampton (Highfield)	Hants	136	Rev. H. Garrett, M.A., F.M.S.
South Bourne-on-Sea	Hants	90	T. A. Compton, B.A., M.D., F.M.S.
Southend	Essex	100	G. Lingwood, F.M.S.
South Norwood	Surrey	190	W. F. Stanley, F.M.S.
St. Michael's-on-Wyre	Lancashire	26	Rev. P. J. Hornby.
Stapleton	Cumberland	400	T. H. Walker, L.R.C.P., F.M.S.
Strathfield Turgiss	Hants	195	Rev. C. H. Griffith, F.M.S.
Strelley	Notts	396	T. L. K. Edge, F.M.S.
Swanage	Dorset	178	B. Jumeaux, L.R.C.P., F.M.S.
Swarraton, Alresford	Hants	310	Rev. W. L. W. Eyre, M.A., F.M.S.
Teignmouth (Bitton)	Devon	50	W. C. Lake, M.D., F.M.S.
,, (Woodway)	Devon	235	G. W. Ormerod, M.A., F.G.S., F.M.S.
Throcking, Buntingford	Herts	484	Rev. C. W. Harvey, M.A., F.M.S.
Torquay (Castle College)	Devon	166	C. J. Harland, F.M.S.
,, (Rocombe)	Devon	400	H. Hearder, F.M.S.
Tunbridge	Kent	99	W. C. Punnett, F.M.S.
Tunbridge Wells	Kent	500	F. Green, M.A., F.M.S.
Ventnor	Isle of Wight	80	J. Codling and H. Sagar.
Wakefield	Yorkshire	96	H. Clarke, L.R.C.P., F.M.S.
Watford	Herts	223	J. Hopkinson, F.L.S., F.G.S., F.M.S.
Weston-Super-Mare	Somerset	20	W. E. Perrett.
Worthing	Sussex	21	W. J. Harris, M.R.C.S., F.M.S.

THE

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THE METEOROLOGICAL RECORD.

REMARKS

ON THE

WEATHER OVER ENGLAND

FOR THE QUARTER ENDING MARCH 31ST, 1881.

THE weather during the quarter was remarkable for the severe frost which lasted from the 7th to the 26th of January; the heavy gale and snowstorm on the 18th of the same month; the dull, cold and wet weather of February; and the great prevalence of easterly winds.

AIR TEMPERATURE was below the average.

In *January* the mean temperature (mean of maximum and minimum) was 30°·4, and varied from 36°·7 at Ilfracombe, 35°·2 at Teignmouth, 35°·1 at Babbacombe, 34°·9 at Ventnor and 34°·5 at Maker, to 23°·3 at Alston, 26°·4 at Stapleton, 26°·5 at Scaleby, 26°·7 at Buxton, and 26°·8 at Leaton. The first week was comparatively mild, but on the 7th a severe frost set in, which continued without intermission till the 27th, when a thaw took place. (A full account of the frost during this period is given in a paper in the *Quarterly Journal of the Meteorological Society*, Vol. VII. p. 138). Intense frost prevailed from the 12th to the 26th, the minimum temperature falling, on many occasions, below 10° over a considerable part of the country. All the rivers and lakes were frozen over with ice of great thickness, so that skating was very generally indulged in. The maximum temperature occurred in the north on the 1st, 2nd, or 4th, and in the south generally on the 31st. The highest readings were:—on the 1st, 48°·0 at Seathwaite; on the 2nd, 49°·7 at Alnwick and 49°·0 at Beacon Stoop; on the 4th, 45°·0 at Stapleton; on the 30th, 52°·7 at Weston-super-Mare; and on the 31st, 54°·9 at Babbacombe, 54°·2 at Bridgetown and Teignmouth, and 52°·6 at Southampton. The minimum temperature was recorded in the north on the 16th, in the central districts on the 20th and 21st, and in the south on the 22nd. The lowest readings were:—on the 15th, 3°·8 at Carmarthen; on the 16th, —7°·5 at St. Michael's-on-Wyre, —7°·0 at Scaleby,—0°·5 at Blackpool, and 0°·8 at Chester; on the 17th, —9°·0 at Alston, and 4°·6 at Isleworth; on the 20th, —3°·8 at Cheltenham, and 7°·1 at Cullompton; on the 22nd, 0°·5 at Tunbridge, 3°·7 at Bude, and 8°·9 at Strathfield Turgiss; and on the 26th, —1°·0 at Churchstoke, and 1°·3 at Hillington. The mean daily range of temperature was 11°·5.

In *February* the mean temperature was 37°·7, and varied from 42°·7 at Ilfracombe, 41°·6 at Maker, 41°·2 at Bude, 40°·9 at Bridgetown, and 40°·7 at Ventnor to 31°·5 at Alston, 32°·3 at Beacon Stoop, 34°·0 at Buxton, 34°·4 at Stapleton and 35°·1 at Kelstern. The weather throughout the

month was dull, wet, and cheerless, the sky being almost entirely overcast. The maximum temperature occurred in the north on the 4th, but in the other districts on various dates, mostly on the 3rd and 16th. The highest readings were:—on the 1st, 55°·1 at Bridgetown; on the 2nd, 54°·4 at Teignmouth; on the 3rd, 55°·0 at Ilfracombe, and 53°·3 at Strathfield Turgiss; on the 4th, 54°·1 at Chester; on the 7th, 54°·9 at Weston-super-Mare; on the 16th, 55°·2 at Carmarthen and 53°·7 at Southampton; and on the 18th, 55°·4 at Colwyn and 53°·6 at Llandudno. The minimum temperatures took place on various dates, chiefly on the 28th. The lowest readings were on the 7th, 15°·9 at Buxton and 20°·3 at Oakamoor; on the 22nd, 13°·5 at Cheltenham; on the 25th, 15°·9 at Buxton; on the 27th, 20°·0 at Dartmoor; and on the 28th, 9°·8 at Alston, 17°·8 at Leaton, 18°·3 at Bridgetown, 18°·6 at Brampford Speke, and 20°·0 at Dartmoor and Scaleby. Owing to the overcast state of the sky the mean daily range of temperature was only 9°·1.

In *March* the mean temperature was 42°·0, and varied from 45°·2 at Ilfracombe and Teignmouth, 45°·1 at Ventnor, 44°·5 at Maker, 44°·4 at Torquay, and 44°·0 at Babbacombe to 33°·7 at Alston, 36°·7 at Stapleton, 37°·0 at Beacon Stoop, 37°·3 at Buxton and 38°·4 at Alnwick. The weather was cold from the 1st to the 3rd, mild from the 4th to the 20th, and cold, but dry, especially from the 27th to the end of the month. The maximum temperature occurred generally on the 16th and 17th, the highest being on the 16th, 62°·4 at Loughborough, and 61°·7 at Strathfield Turgiss; on the 17th, 63°·6 at Portsmouth, 63°·0 at Ross and Teignmouth, and 61°·8 at Burghill; and on the 18th, 64°·2 at Bridgetown. The minimum temperature took place on the 1st and 2nd, the lowest readings being:—on the 1st, 8°·8 at Bridgetown, 15°·3 at Buxton, 16°·3 at Churchstoke, 16°·5 at Oakamoor, 16°·8 at Mansfield and 18°·0 at Dartmoor; and on the 2nd, 0°·0 at Alston, 14°·0 at Stapleton, 15°·0 at Scaleby, 16°·2 at Seathwaite and 18°·2 at Cockermouth. The mean daily range of temperature was 12°·6.

Atmospheric Pressure was below the average.

In *January* the mean pressure reduced to sea level was 29·91 ins. The pressure was highest over the central districts and lowest in the south. The maximum occurred on the morning of the 7th, the highest reading being 30·759 ins. at Wakefield. The minimum took place on the morning of the 29th, the lowest reading being 28·781 ins. at Babbacombe at 11 a.m. A deep depression passed up the English Channel on the 18th, causing very steep gradients for easterly winds; the lowest reading registered on this day was 28·917 ins. at 11·30 a.m. at Babbacombe.

In *February* the pressure was very uniformly distributed over the country, the highest readings being generally in the south and the lowest in the north-west; the mean pressure was 29·84 ins. The maximum occurred in the north on the 21st, and in the central and southern districts on the 24th; the highest readings being 30·446 ins. at 9 p.m. on the 21st at Alnwick, and 30·392 ins. at 9 a.m. on the 24th at Churchstoke. The minimum took place on the 10th, the lowest reading being 28·709 ins. at 9 p.m. at Scaleby.

In *March* the mean pressure was 29·89 ins. The highest readings were in the south and south-east, and the lowest in the north. The maximum occurred on the 17th, the highest reading being 30·626 ins. at 9 p.m. at Dartmoor. The minimum took place generally in the south on the 5th, in the central and more northern districts on the 7th, and in the extreme north on the 24th. The lowest readings were 29·044 ins. at 9 p.m. on the 5th at Carmarthen, 29·063 ins. at 9 a.m. on the 7th at Scaleby, and 28·985 ins. at 9 p.m. on the 24th at Alnwick.

RAINFALL was in excess of the average.

In *January* the rainfall and number of rainy days were small except along the south coast, where heavy snowstorms occurred from the 17th to the 21st. The monthly falls varied from 4·21 ins. at Harestock, 3·33 ins. at Ashburton, 3·23 ins. at Ventnor and 3·17 ins at Bournemouth to 0·33 in. at Wakefield, 0·39 in. at Cheadle and Leaton, and 0·42 in. at Farley. The greatest daily fall was the result of the snowstorm of the 18th, but owing to the heavy gale blowing at that time, the amounts measured are somewhat doubtful. Between the 17th and the 21st, however, 12 ins. of snow fell over most of the south of England, and upwards of 2ft. in the Isle of Wight, and in parts of Hampshire and Wiltshire. More or less snow fell in different parts of the country from the 10th to the 27th.

In *February* both the rainfall and number of rainy days were in excess of the average. The monthly falls varied from 11·28 ins. at Dartmoor, 10·87 ins. at Seathwaite, 9·08 ins. at Buxton, 8·10 ins. at Ashburton and 6·22 ins. at Oakamoor to 1·78 in. at Ramsgate, 1·79 in. at Southend, 2·05 ins. at Swarraton, 2·14 ins. at Aspley Guise, and 2·25 ins. at Lowestoft. The greatest daily falls occurred chiefly on the 7th, 9th, 13th, and 14th, the largest amounts being :—on the 3rd, 1·73 in. at Dartmoor, and 1·42 in. at Seathwaite; on the 7th, 1·87 in. at Buxton, 1·79 in. at Seathwaite, 1·46 in. at Dartmoor, 1·36 in. at Oakamoor, 1·31 in. at Belper, 1·21 in. at Ashburton, 1·20 at Blackburn, and 1·09 in. at Cheadle; on the 8th, 1·44 in. at Buxton; on the 9th, 1·97 in. at Dartmoor, 1·65 in. at Downside, 1·22 at Buxton, 1·21 in. at Seathwaite, 1·12 in. at Cardiff, 1·09 in. at Belper and 1·01 in. at Eastbourne; on the 13th, 1·55 in. at Ashburton, 1·10 in. at Dartmoor, 1·04 in. at Seathwaite and 1·02 in. at Sidmouth; and on the 14th, 2·07 ins. at Dartmoor, 1·32 in. at Swanage, 1·16 in. at Ashburton, 1·11 in. at Sidmouth, and 1·04 in. at Worthing. Snow occurred in many places from the 5th to 7th, 11th to 14th, and 20th to 28th. Thunderstorms were experienced in the south-west on the 7th and 10th.

In *March* the rainfall and number of rainy days were less than in the preceding month. The monthly falls varied from 15·07 ins. at Seathwaite, 10·25 ins at Dartmoor, 7·42 ins. at Ashburton, 6·37 ins. at Buxton and 5·36 ins. at Alston to 1·20 in. at South Norwood, 1·37 in. at Beddington, 1·38 in. at Southend, 1·48 in. at Croydon and 1·56 in. at Throcking. The greatest daily falls occurred in the north on the 5th, and in the other districts on the 3rd, 8th, 13th, and 23rd. Falls of 1 inch and above were registered as follows :—on the 3rd, 1·66 in. at Ashburton, and 1·27 in. at Dartmoor;

on the 5th, 1·56 in. at Dartmoor, 1·32 in. at Alnwick, 1·20 in. at Wakefield, and 1·15 in. at Ashburton; on the 6th, 1·29 in. at Dartmoor, and 1·00 in. at Seathwaite; on the 8th, 2·73 ins. at Seathwaite, and 1·56 in. at Buxton; on the 9th, 3·27 ins. at Seathwaite, 1·49 in. at Alston, and 1·00 in. at Stapleton; on the 13th, 1·62 in. at Teignmouth, 1·50 in. at Ashburton and Babbacombe, 1·32 in. at Torquay, and 1·07 in. at Dartmoor; and on the 23rd, 1·75 in. at Seathwaite, and 1·38 in. at Dartmoor. Snow fell in the north from the 1st to the 5th, and was very general all over the country from the 21st to the 26th. Thunder occurred on the 7th, 8th, 22nd, 23rd, and 24th.

WIND.—In *January* the wind blew chiefly from the E and NE but calms and variable airs prevailed during a part of the month. On the 18th an exceptionally severe Easterly gale was experienced over the whole of the southern part of England, which, combined with the heavy snowfall, caused immense destruction of property and interruption to traffic, owing to the serious drifts of snow.

In *February* W and NW winds prevailed till the 18th, and E and NE till the end of the month. Gales and strong winds occurred on several occasions between the 7th and 11th.

In *March* the general direction of the wind was SW on the 1st, SE from the 2nd to the 4th, SW from the 5th to the 11th, E from the 13th to the 16th, W and NW from the 17th to the 26th, and E or NE from the 27th to the 31st. The wind was strong in force throughout the month, and gales occurred on the 4th, 5th, and 7th.

FOG was very prevalent in *January* especially from the 24th to the 29th; in *February* on the 1st, and from the 15th to the 20th; and in *March* from the 12th to the 16th.

HALOS were seen in *January* on the 6th, 8th to 10th, 16th and 17th; in *February* on the 1st, 7th, 10th to 12th, 18th; and in *March* on the 2nd, 7th, 8th, 10th to 15th, 17th, 18th, 22nd, 23rd and 29th.

AURORA was observed very generally on January 31st, and also at Cheltenham on February 6th, Buxton on March 17th, and at Leaton on March 22nd.

NOTES BY THE OBSERVERS.

ALSTON, *March*.—On the 2nd there was about 6 ins. of ✳ on the ground, the wind increased to a gale during the night and continued to blow until the 5th. The estimated fall of ✳ on the 3 days would not, in my opinion, exceed 12 ins.

BABBACOMBE, *January*.—The mean temperature was about 7° below the average. It was excessively cold from the 15th to the 22nd, and on the 25th; the air temperature fell below 32° on 19 consecutive nights from the 8th to the 26th, and below 20° on 7 nights, and only rose above 50° on the last two days. The ● was only about half the average, and nearly all fell after the 15th. ✳ fell every day from the 16th to the 21st, very heavily on the 18th, to the average depth of 6 ins., but was drifted by gales on that and the next day, and again on the 21st to the depth of several feet, blocking some of the lanes to the depth of 8 ft.; it lay on the ground from the 11th to the 27th, and in the drifts till the 31st. The gale on the 18th was very severe, exceeding 54 miles an hour from 4 to 10 a.m., and reaching a maximum velocity of 59 miles from 7 to 8 a.m.; the sea and tide in consequence were very high, doing much damage. Average sea temperature 41°·9.

February was a wet, cold, gloomy and foggy month. ● fell on each of the first 15

days. The temperature was rather high till the 10th, but was low after the 21st; it was generally equable. The days were cold, the highest temperature only reaching 51°·2 (on the 1st). Heavy ✳ fell on the 27th to the depth of 3½ ins. The ✳ drifts of January remained till February 5th. ≡ was unusually prevalent, being observed on 11 days. The 16th and 28th were almost the only fine days in the month. Average sea temperature 44°·0.

March was a variable month; the beginning and end being winterly, but the middle warm and spring-like. The ● was much above the average (owing to heavy falls on the 3rd, 4th, 5th and 13th), but the wet days were few. The temperature was about the average, but varied considerably. The weather was generally dull and damp from the 3rd to the 14th, mostly fine and dry after the 17th. ✳ lay on the ground from the 1st to the 3rd, and a little on the 21st. A Parhelion was seen on the 27th. Average sea temperature 45°·6.

BEDDINGTON, *March* 11.—Fruit trees blossoming and budding. Peach, apricot and lilac coming out.

BOURNEMOUTH, *January*.—The minimum on the 22nd is the lowest registered in this position during the last 16 years, and I have heard of none so low at any previous time. For one day in December 1870, and one day in January 1871, it was nearly as low, 13°·4 and 13°·6; but the days before and after were not nearly as low as on this occasion.

BUXTON, *January*.—The mildness of the early part of the month caused some activity to be apparent in such shrubs as the flowering currants, guelder rose and box. About the 29th the rooks, jackdaws and starlings seemed particularly active. So intense was the frost during the middle portion of the month that blackbirds, thrushes and redbreasts seemed to have difficulty in finding food.

February.—Snowdrops began to come in flower on the 19th. The missel thrush was heard on the morning of the 27th. Very much mist (not amounting to ≡) prevailed during the middle portion of the month. On 3 days upwards of an inch of ● fell.

March 11*th*.—Flower buds on the barberry ready to burst. 12th, buds on flowering currants opening. 15th, lilacs in bud. 19th, sycamore in bud. 22nd, primroses and crocuses out.

CARDIFF, *January* 18*th*.—The snow stopped the trains on the L. & N. W. Ry. between Abergavenny and Merthyr Tydvil. One train of passengers was blocked up for the night at Brynmawr and another at Rhymney Bridge, and trains ceased running until the 21st. The Taff Vale Railway, the Rhymney Railway to Cardiff, and the Monmouthshire Railway and Western Valleys Railways to Newport, worked their passenger trains: but a little after time. Many ships ashore at Penarth.

CHELTENHAM, *January*.—A month of remarkable cold in the middle, culminating on the 20th in a temperature of 3°·3, while that on the grass reached —10°·0. A very terrible ✳ storm on the 18th, not so much on account of the depth of ✳, which averaged but 7 ins., but from the fierce wind which piled it up in drifts where any obstacles occurred. A magnificent ♅ on the 31st from sunset to 11.30 p.m, commencing with streamers from a bank of red clouds, then wavy flashes of light and concluding with a splendidly developed auroral arch all over the northern horizon—gradually fading away from 9.30.

February.—A cold and unpleasant month, particularly from 10th to 13th, when atmospheric pressure varied considerably. A heavy fall of ✳ 4 ins. on the 21st (early morning). Some gleams of ♅ on the 6th, but by no means remarkable.

March.—A fine warm middle with cold commencement, and cold, dry, windy, dusty, disagreeable end. Vegetation retarded. Ground so dry that seeds will not germinate. Peach in flower by 18th.

CHURCHSTOKE. *January*.—The very severe weather during the month has prevented any progress being made in farm work, beyond carting manures and threshing grain. Stock has required great attention, and much keep has been consumed. It is feared roots have sustained some damage from the frost, and provender may yet become scarce.

February.—Weather very rough and winterly. Little or nothing in outdoor work could be done. Stock of all kinds has required much attention, and more fodder consumed, and roots damaged than for a long time past. Sheep still dying from rot, and stock doing badly for the season.

March.—The greater part of the month has been a great contrast to February, being dry and very cold. Tillage work has gone on very satisfactorily, nearly half the spring seed being put into a good soil. Winter sown wheat very backward and in some places short of plant. Roots for stock nearly all consumed, and out-door help unusually backward for the season.

COCKERMOUTH, *January*.—The driest January during the last 20 years (when systematic observations were commenced here), as well as the coldest. The mean temperature of the month was 0°·2 lower than the mean of December 1878, which was previously the coldest month observed here.

CROYDON, *January*.—The following extreme temperatures were registered on the surface of the ✳ on 3 consecutive nights, viz. —2°·8 on the 20th, —6°·3 on the 21st,

and —4°·4 on the 22nd, all being lower than any of which I have any previous (1873-80) record. Between 10 a.m. and 5 p.m. on the 18th the average velocity of the wind amounted to over 34 miles an hour—direction ENE. This is the highest wind that has been experienced here for at least 3 years. The ✳ storm of the 18th began about 8.30 a.m. and lasted until the afternoon of the day following, the second day's fall being however much the lighter. The average depth on the ground of ✳ after the first fall (10th-11th) was 1½ in. on grass and 1 in. on gravel path. This covering remained unmelted until the heavy fall of the 18th and 19th, after which I estimate the average depth to have been about 8 ins.—the greatest depth was 2 ft. and the least 3 ins. Shrubs were much injured, but all low-growing vegetation receiving protection from the ✳ was little, if at all, affected. Cabbages and broccolis were nearly all killed, but celery which last winter was entirely destroyed, escaped altogether without injury.

February.—At 11 p.m. on the 23rd the ground was covered with ✳ to the average depth of 3 ins. To show the cold and sunless character of this month I need only mention that a blossom upon a double primrose growing in an open border though already half expanded when the month began was yet not fully open even at the end of it. A *calceolaria* which survived the intense and prolonged frost of January succumbed to the comparatively moderate but snowless frosts of this month. A winter *aconite* came into flower under a south wall on the 16th, and a snowdrop in a similar position on the 26th, the former 4 days earlier and the latter one day later than in the previous year.

March.—On 12 days the sun was shining for over 6 hours, and on one of these (30th) for 10 h. 12 m. By the middle of the month nearly all my rose-plants which had been left unpruned had young leaves at the ends of their shoots, but during the last week strong NE winds set in with dry weather, and vegetation generally was brought to a sudden standstill in consequence. A *Cydonia Japonica* on an east wall came first into blossom on the 17th, or 3 days earlier, and a peach on a south wall on the 21st, or about a week later than in 1880.

HILLINGTON, *January.*—Weather open and tolerably mild 1st, 9th, and 27th-31st. From 10th-26th very severe cold, sharp frost; the ✳ never deeper than 4½-5 ins. but much drifted. Roads running N-S stopped up.

February.—An exceptionally wet month. ● or ✳ on 22 days; 1·02 in. above mean of 15 years, 1866-80, with far fewer genial days than usual. Aconites and snowdrops in flower on 4th.

March.—The first few days cold: from 5th-19th warm and pleasant: the latter part cold, windy (with a little ✳) and dreary. Vegetation very backward; nothing growing owing to prevalence of E winds.

ISLEWORTH, *February* 8.—Grass beginning to show green tinge of first growth following on the rapid rise of earth temperature; this more general and decided on the 10th.

March.—Between the 6th and 17th the first signs of spring life might be considered established. First leaf buds showing green on hawthorns, young leaves beginning to appear on elder and weeping willows; and sap dropping from boughs of birch from which side sprays had been cut.

LEATON, *February 10th.*—Very heavy floods in the River Severn. Water above the axles of carriages. 11th.—Roads impassable. Water above hedges. 12th.—Flood falling, still dangerously deep in roads. Severest flood since 1869.

PORTSMOUTH, *January 22nd.*—The ✳ at rain-gauge had drifted 6 or 7 feet deep.

ROSS, *January 26th.*—Ice on the River Wye 9 ins. thick. 30th.—Breaking up of ice on River 4 p.m.

February 12th.—Very high flood on River Wye (13 to 16 ft.).

SCARBOROUGH, *January.*—This has been the coldest month experienced here since the present record (extending back to 1866) was commenced, the mean temperature being 6°·4 colder than the average. ✳ and ▲ showers were pretty frequent in the middle of the month, but not heavy, the total, including a little ●, being 0·52 in. less than the mean of the last 15 years. A good deal of ≡ was prevalent during the last week when the temperature was lowest. A fine ⅄ was observed on the 31st which powerfully affected the telegraph lines, many of which were unworkable between 6.30 and 7 p.m., owing to the strong earth currents. Mean sea temperature 40°·8.

February.—The weather during the whole month has been very unsettled, ≡, ●, ✳, and ▲ having been more than usually abundant. The mean temperature has been over 3°·0 colder than, and the ● 1·49 in. in excess of, the mean for the previous 15 years. Mean sea temperature 39°·0, being about 1°·5 cooler than the previous 4 years' average.

March.—The mean temperature has been 0°·9 colder than the average, whilst the ● (including some ✳) was unusually abundant during the first 10 days, the total being 1·19 in. in excess of the mean for the previous 15 years. Light ✳ showers have been frequent during the month, the prevailing winds having been N and E. Mean sea temperature 40°·1, or 1°·7 cooler than the average of the previous 4 years.

SOUTH BOURNE, *January*.—Cold period from the 13th to the 25th quite unprecedented in this district. River Stour frozen from Wick Ferry to Christchurch Quay so that people walked across for several days from this place to Christchurch! River not frozen in this way since 1855, and then not to so great an extent. Very old persons report an equal quantity of ice on river in the winter of 1812-13. A man frozen to death in ✳ drift to north-east of Christchurch. I have never observed such fine ✳ as that which fell on the 17th-20th. During this severe frost rooks were seen eating sparrows, and blackbirds each other!

SWANAGE, *January 18th*.—SE gale. Pier torn up by sea. ✳ drifts 5 and 6 ft. in places. Screen for instruments full of ✳. 19th.—NE gale. Very heavy fall of ✳. Peverill Buoy dragged moorings over a mile.

TEIGNMOUTH, *March 3rd*.—Heavy sea, said by sailors and coast-guard to be the heaviest they had known.

VENTNOR, *January*.—Shrubs have suffered very much from weight of ✳.

TEMPERATURE OF THE SOIL AT 9 A.M.

Station.	Depth below the Surface.	January.			February.			March.		
		Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.
		°	°	°	°	°	°	°	°	°
Alnwick.....	1 ft.	36·9	40·5	35·0	36·6	40·0	36·0	41·1	48·0	36·0
,, ...	2 ,,	40·4	42·0	39·0	39·5	40·0	39·0	42·1	45·5	39·5
Apsley Guise..	3 ins.	32·0	38·8	24·7	36·2	42·5	32·0	39·7	48·0	31·6
,, ..	6 ,,	32·3	38·6	24·5	36·4	41·7	32·1	39·8	47·2	33·1
,, ..	1 ft.	33·2	39·0	27·0	36·6	40·7	32·0	40·8	46·0	33·6
,, ..	2 ,,	36·1	40·2	33·2	37·7	39·7	33·6	41·7	45·0	35·9
,, ..	4 ,,	40·2	42·8	37·6	39·3	40·2	37·5	41·7	43·4	38·7
Babbacombe ..	1 ,,	38·1	43·7	34·8	41·7	43·7	37·8	44·8	48·4	36·7
Beacon Stoop	1 ,,	—	—	—	33·2	34·9	31·0	37·6	42·7	32·0
,, ..	2 ,,	—	—	—	—	35·2	—	37·2	40·1	32·0
Croydon.....	6 ins.	34·1	40·4	31·4	37·7	42·6	33·7	40·8	47·8	33·0
,, ...	1 ft.	35·2	40·7	33·0	38·1	41·8	35·2	41·7	47·0	34·0
Cullompton ..	1 ,,	35·8	41·8	33·0	39·5	42·7	33·7	43·2	46·5	36·2
Farley	1 ,,	32·9	40·0	28·5	33·7	37·3	31·6	38·7	44·0	33·1
,, ...	2 ,,	35·3	40·0	32·4	34·6	37·0	33·2	39·0	41·9	34·4
Isleworth	1 ,,	34·3	39·2	31·2	37·1	40·5	32·2	41·1	46·3	34·1
,, ...	2 ,,	37·6	41·3	34·9	38·3	40·4	35·2	41·7	44·5	36·4
Lowestoft	1 ,,	35·5	40·2	32·9	37·6	39·8	34·7	40·9	45·9	35·0
Norwood	1 ,,	35·7	40·1	33·1	37·9	40·5	35·4	41·7	45·3	34·6
Oakamoor	1 ,,	32·9	39·2	27·0	33·4	34·3	32·0	39·9	45·1	33·0
,,	2 ,,	35·1	39·6	28·7	35·7	38·9	34·2	40·4	43·8	35·4
St. Leonard's	1 ,,	35·9	42·1	32·9	39·7	42·5	37·1	43·0	46·2	36·3
Southampton	1 ,,	36·5	42·3	34·3	39·3	41·9	35·7	43·6	47·1	35·9

DURATION OF BRIGHT SUNSHINE.

Station.	Total amount.			Greatest amount on one day.			No. of days on which no Sunshine was registered.		
	Jan.	Feb.	March.	Jan.	Feb.	March.	Jan.	Feb.	March.
	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.			
Aspley Guise..	62·5	37·6	131·2	7·8	7·2	10·0	16	13	7
Churchstoke ..	39·5	53·2	124·3	6·3	7·5	10·5	18	12	9
Croydon.....	44·5	26·9	140·8	6·1	5·8	10·2	18	15	3
Hillington	46·5	30·8	130·0	5·9	5·6	9·5	13	16	5
Hodsock	41·1	36·9	108·2	6·2	6·6	9·7	16	14	8
Kelstern.....	48·4	29·6	—	6·7	4·8	—	16	16	—
Llandudno ..	69·5	66·3	85·2	6·8	8·1	9·6	8	11	6
South Bourne	53·1	55·8	135·5	5·6	8·8	9·5	15	15	5
Strelley	—	—	109·7	—	—	11·1	—	—	9

Abstract of Meteorological Observations for the Month of JANUARY, 1881.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather, No. of days of					Wind, No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.														
Alnwick	29·913	29·0	28·7	28·9	23·1	36·8	0·1	26	49·7	2	28·0	27·6	82	80	6·1	5·2	2·21	·57	19	12	13	5	9	0	2	2	3	4	3	3	7	20	18
Scaleby	·921	24·0	26·1	25·1	19·7	33·2	— 7·0	16	46·5	2	23·3	25·3	81	80	5·9	4·8	·91	·62	12	10	6	6	8	0	0	16	13	0	2	7	2	0	22
Scarborough..	·914	31·8	32·7	32·3	28·6	35 8	10·5	26	44·8	4	31·1	31·7	90	88	7·1	5·5	1·38	·26	15	17	11	3	12	2	3	6	6	3	5	15	15	9	0
Wakefield	·930	29·9	30·9	30·4	25·1	35·7	12·1	18	47·9	2	29·3	30·0	90	87	..	..	·33	·15	27	6	..	..	..	..	14	9	6	3	2	4	13	11	0
Kelstern	·929	26·9	27·8	27·4	23·5	33·6	2·5	15	45·3	2	26·4	27·6	90	95	4·5	4·6	·90	·29	12	16	11	9	9	1	15	8	6	2	7	6	7	9	2
Mansfield	·930	27·2	28·7	28·0	23·1	34·0	6·0	15	45·2	1	..	..	..	..	6·8	7·1	·69	·32	12	9	10	4	15	0	6	10	4	0	4	10	8	10	10
Buxton	·974	26·3	26·8	26·5	19·8	33·5	1·2	25	45·6	4	25·8	26·2	89	87	6·3	5·8	·57	·22	18	6	9	3	10	1	4	4	9	12	0	3	7	19	4
Cheadle	·923	27·2	28·9	28·1	24·2	33·7	9·9	25	45·0	31	26·5	28·4	84	91	5·6	5·5	·39	·10	29	8	7	8	12	3	11	3	14	4	2	2	5	6	15
Llandudno ..	·905	34·3	34·3	34·3	29·4	39·2	14·5	26	48·2	29	32·4	32·7	81	84	5·6	6·0	1·79	·62	15	10	10	7	14	2	4	1	14	3	12	8	17	3	0
Leaton	....	25·6	27·8	26·7	20·0	33·6	1·0	16	47·1	2	..	..	..	..	..	..	·39	·11	26	8	5	..	..	..	..	..	..	..	..	..	..	..	..
Churchstoke..	·941	25·5	27·5	26·5	21·5	33·6	— 1·0	26	48·5	31	25·0	27·2	88	93	5·5	5·8	·78	·43	19	8	10	9	13	1	5	4	8	9	3	6	8	7	12
Cheltenham ..	....	27·2	29·1	28·2	20·7	34·4	— 3·3	20	48·0	31	26·5	28·3	85	86	6·9	6·6	1·55	·90	18	12	7	4	15	1	8	8	2	8	7	0	2	0	27
Carmarthen ..	·895	29·3	30·5	29·9	25·1	37·9	3·8	15	50·3	31	28·6	..	86	..	6·2	5·2	1·32?	·26?	26, 28	12	6	7	13	1	4	5	16	0	3	0	0	0	34
Dartmoor	..	..	..	..	..	..	10·0	25	44·0	29, 30, 31	..	..	..	..	..	..	....	..	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Babbacombe..	·867	34·5	34·0	34·3	29·5	40·6	15·3	20	54·9	31	33·1	32·5	86	85	8·0	6·2	2·44	·52	18, 28	14	11	5	16	8	9	15	15	3	3	5	6	3	3
Downside	·901	28·6	29·7	29·2	25·2	35·2	8·8	15	47·2	31	28·3	29·2	94	92	7·9	6·5	3·15	....	....	12	10	3	17	3	1	24	5	3	5	9	4	8	3
Marlborough	·913	27·2	29·2	28·2	24·5	35·2	6·9	15	48·8	31	26·8	28·7	91	91	7·6	7·5	2·68	....	....	10	5	3	20	0	1	3	10	0	0	0	3	0	45
Strathfield T.	·905	29·2	29·5	29·4	23·5	36·0	3·9	22	49·1	31	28·4	28·8	84	88	6·9	6·7	1·19	·29	18	10	6	6	17	0	9	21	6	4	2	7	6	2	5
Norwood	·905	29·7	31·8	30·8	26·7	36·2	10·8	17	49·7	31	28·9	30·9	86	88	7·2	6·1	1·59	·90	18	9	9	6	16	1	6	11	14	1	3	4	7	7	9
Croydon	·901	29·5	30·9	30·2	26·6	36·2	11·6	21	50·4	31	28·8	30·2	88	89	7·3	5·8	1·27?	·53?	18	10	8	5	15	1	5	14	11	1	6	10	10	2	3
South Bourne	·882	30·4	32·4	31·4	27·1	37·3	12·1	24	47·6	31	29·4	31·2	84	85	6·7	4·8	2·52	·78	20	12	7	8	11	2	20	16	5	2	2	3	3	7	4
Ramsgate	·902	32·6	33·5	33·1	29·1	37·8	15·0	15	49·6	31	31·6	32·6	88	90	7·3	6·3	1·15	·32	26	13	8	2	14	1	0	0	23	2	6	4	7	5	15
Hillington ..	·899	28·1	29·0	28·6	22·6	34·9	1·3	26	46·5	31	27·5	28·5	88	91	7·7	7·0	1·18	·23	12	20	11	4	19	1	1	10	4	10	9	16	0	12	0
Lowestoft ...	·892	31·4	32·4	31·9	27·3	36·7	9·2	15	48·0	31	30·6	31·7	90	91	5·8	6·6	1·07	·20	27	16	8	7	13	3	2	8	10	6	4	6	13	11	2
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Alnwick ..	..	..	..	≡	≡	..	≡	≡	≡	●✱▲	●✱	●✱▲	●✱ ▲	✱	..	..	T✱≡	✱	●✱	●✱	●✱▲	●✱ ▲	●✱ ▲≡	≡	≡	●≡	✱≡	≡	●≡	●≡	Ψ
Scaleby	●	..	..	≡	..	..	..	Ψ	..	..	..	●✱	..	●✱	≡	..	..	●✱	●✱	●✱	..	..	..	..	..	●✱	●	●	●	..	..
Scarborough	≡	≡	≡	≡	..	..	..	●≡	..	●▲	●✱	●✱▲	●✱ ▲	..	●✱	✱	●	✱	●✱▲	●✱	●✱▲	●✱ ▲	●✱	≡	≡	≡	●≡	●≡	●≡	●≡	●≡Ψ
Wakefield ..	..	..	..	..	..	..	..	..	..	..	●	●	..	..	..	●	..	..	●	..	..	●✱	..	≡	≡	..	●≡	..	●≡	..	..
Kelstern ..	..	≡	.	..	..	..	●	●	≡	●✱	●	●✱≡	●✱	..	≡	●	✱≡Ψ	✱	●✱	●✱	●✱	✱	✱≡	≡	≡	●≡	●✱≡	●≡	●≡	●≡	Ψ
Mansfield ..	..	≡	..	●≡	..	..	≡	..	✱	≡	..	●✱	✱	≡	●✱	✱	≡Ψ	●✱≡	✱	..	≡	✱	≡	≡	≡	●✱≡	●✱≡	●≡	●≡	..	●
Buxton	●	..	..	..	..	..	..	Ψ	..	..	●✱	✱	✱	..	●✱	●✱	..	●✱	✱	≡	..	..	..	≡	≡	●✱	✱	≡	≡	..	Ψ
Cheadle	..	..	..	●	..	..	..	≡	..	≡	●✱≡	..	✱	..	●✱	..	✱	●	✱	..	✱	..	..	≡	≡	●✱≡	≡	●≡	●≡	●≡	Ψ
Llandudno ..	..	≡	..	●≡	..	..	.	..	≡	✱	●✱	●✱	✱	..	●✱	●✱	..	✱	..	..	..	●	✱	..	..	●✱≡	..	..	●	●✱	●Ψ
Leaton	..	≡	..	..	.	..	..	≡	..	..	●✱	..	≡	≡	✱	..	..	●✱	..	..	..	..	●✱	..	..	●✱≡	●✱≡	●≡	●≡	●	Ψ
Churchstoke	..	..	..	●	..	..	..	≡	..	..	●✱	✱	..	≡	●✱	✱	..	✱	●✱	..	≡	..	●✱	✱	..	●✱≡	✱≡	≡	≡	●	●
Cheltenham	≡	..	●	●	..	..	..	..	..	✱	●✱	●✱	✱	≡	≡	..	..	●✱	●✱	..	..	≡	..	≡	≡	●✱	●	●≡	●	●	●Ψ
Carmarthen	●	..	●	..	..	..	..	..	≡	..	●✱	●✱	..	..	●✱	✱	..	..	●✱	✱	..	..	..	..	..	●	●≡	●≡	●≡	●	●
Dartmoor ..	●✱ ≡	..	..	●	..	..	..	..	..	..	●	●✱	✱	.	●	✱	✱	—	—	—	—	—	—	—	—	≡	●≡	●≡	●≡	●✱ ▲≡	●
Babbacombe	..	..	..	..	..	..	..	..	..	..	●✱	✱	..	..	..	●✱ Ψ	●✱▲ ○Ψ	●✱▲	●✱▲	●✱Ψ	●✱≡	●✱	..	●▲	✱▲	..	●✱≡	●✱≡	●≡	●	●	●≡Ψ
Downside ..	..	..	≡	●	..	..	..	..	✱≡	≡	●✱	●✱	✱	≡	..	..	..	●✱	●✱	●✱	✱	≡	●✱	≡	≡	●✱≡	●≡	●≡	●≡	●	≡Ψ
Marlborough	≡	..	≡	●	..	..	..	..	✱	≡	●	..	..	..	..	..	..	●✱	●✱	..	..	..	✱	≡	..	●✱▲	●≡	●	●≡	●≡	●
Strathfield T.	..	●≡	≡	..	..	..	≡	✱≡	≡	..	●✱	..	≡	≡	≡	≡	≡	●✱	●✱	✱	..	..	..	≡	≡	●✱≡	●≡	●≡	●	●≡	●≡
Norwood	..	≡	≡	≡	..	Ψ	≡	≡	≡	✱≡	●✱≡	✱≡	✱≡	≡	≡	≡	≡○Ψ	●✱	●✱	≡	≡	✱≡	✱≡	≡	≡	●✱≡	●≡	●≡	●≡	●≡	●≡Ψ
Croydon	..	≡	..	≡	..	Ψ	≡	≡	≡	●✱≡	●✱≡	✱≡	≡	≡	≡	≡	≡	●✱▲	●✱	≡	≡	✱≡	✱≡	≡	..	●✱≡	●≡	●≡	●≡	●	≡Ψ
S. Bourne ..	..	..	..	..	..	..	..	..	..	●✱	●✱	..	..	..	..	..	●✱	●✱	●✱	●✱	✱	..	..	≡	..	●	●≡	●	●	●	●Ψ
Ramsgate ..	●	..	..	..	..	..	..	..	..	●	✱	●✱	✱	✱	..	..	●	●✱	●✱	..	●✱	●✱	..	..	..	●	●≡	●≡	●	●	..
Hillington ..	..	●≡	●	..	●	●	..	●	Ψ	✱Ψ	●✱	●✱	●✱	..	●✱	..	..	●✱	●✱▲	●✱	●✱	●✱	✱	..	..	●	●	●	●	●	●Ψ
Lowestoft ..	●	≡	..	..	..	..	..	●	..	●✱	●✱	●✱	●✱	●✱	..	..	..	..	●✱	●▲	●✱	●✱	..	≡	..	●	●≡	●≡	●≡	●	..

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✱ snow; ▲ hail; ≡ fog; ⌇ thunderstorm; T thunder; ⌇ lightning; ○ solar halo; Ψ lunar halo; Ψ aurora.

Abstract of Meteorological Observations for the Month of FEBRUARY, 1881.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather, No. of days of					Wind, No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of Min.	Means of Max.	Absolute Min. Min.	Absolute Min. Date.	Absolute Max. Max.	Absolute Max. Date.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours. Amnt.	Greatest Fall in 24 hours. Date.	Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.														
Alnwick	29·816	33·7	34·2	33·9	30·9	39·6	24·5	28	48·4	4	32·6	33·0	89	88	7·6	7·5	4·08	·79	14	21	16	3	16	0	5	2	7	10	6	6	4	11	5
Scaleby.....	·806	34·9	35·7	35·3	31·0	40·6	20·0	28	50·2	4	33·9	34·7	90	90	7·5	7·7	3·03	·61	2	14	1	1	14	2	3	10	12	3	1	10	1	1	15
Scarborough	·820	36·7	36·9	36·8	34·3	39·5	29·8	28	49·5	4	35·8	36·1	91	93	8·6	7·7	3·13	·43	10	21	13	1	16	3	8	6	4	9	11	5	8	4	1
Wakefield....	·826	36·0	36·3	36·2	32·3	41·1	23·8	7	53·0	4	34·8	35·2	89	90	8·8	7·8	3·82	·97	14	17	6	2	21	0	6	11	6	7	4	4	8	10	0
Kelstern	·838	34·4	34·1	34·2	31·0	39·3	24·5	28	50·3	5	33·9	33·8	94	97	8·2	7·5	3·83	·74	21	18	15	1	17	0	6	6	9	7	9	7	2	8	2
Mansfield	·836	34·9	34·9	34·9	31·8	40·7	21·8	24	49·6	4	34·1	34·3	92	94	8·5	7·1	4·44	·83	7	19	13	2	17	0	12	5	6	4	12	6	5	5	1
Buxton	·877	33·4	33·3	33·4	28·5	39·5	15·9	7, 25	47·3	3	32·9	32·9	94	96	8·4	7·4	9·08	1·87	7	16	17	2	16	1	0	7	4	15	1	9	5	14	1
Cheadle	·829	34·3	34·8	34·5	31·6	40·0	22·1	28	48·6	10	33·7	34·2	94	94	7·7	7·3	5·39	1·09	7	17	11	1	16	1	7	8	10	7	4	4	3	6	7
Llandudno ..	·797	39·4	39·8	39·6	36·0	44·7	28·0	25	53·6	18	37·4	37·7	84	83	7·4	6·3	3·05	·68	7	15	5	4	14	5	4	2	12	8	8	7	13	2	0
Leaton	·856	35·9	36·3	36·1	31·6	41·8	17·8	28	51·0	3	35·0	35·4	91	92	6·9	7·5	3·56	·87	7	19	6	4	15	..	9	1	13	3	11	4	7	4	4
Churchstoke..	·838	36·0	36·5	36·3	32·0	42·6	21·2	28	51·9	15	35·2	35·5	92	91	7·8	7·2	4·28	1·06	9	16	10	1	16	2	5	7	5	10	3	6	7	8	5
Cheltenham	·826	38·0	37·2	37·6	31·4	42·8	13·5	22	52·0	3	36·6	36·2	88	91	8·5	7·4	3·03	·48	20	18	7	1	17	0	8	4	5	7	9	2	5	3	13
Carmarthen ..	·821	39·7	39·5	39·6	35·2	46·0	21·8	25	55·2	16	38·1	38·1	87	88	6·9	7·4	5·38	·88	9	16	1	5	15	3	2	5	11	5	4	2	6	2	19
Dartmoor	·864	35·6	34·9	35·3	31·5	40·0	20·0	27, 28	47·2	3	..	..	..	..	9·1	6·7	11·23	2·07	14	19	5	0	16	1	4	5	12	4	7	7	3	4	10
Babbacombe..	·840	40·4	39·8	40·1	36·2	44·6	26·1	26	51·2	1	39·0	38·4	88	89	8·5	7·8	4·66	·74	14	19	4	1	17	5	5	12	8	3	7	6	8	5	2
Downside	·839	36·6	37·0	36·8	33·1	42·6	25·0	28	51·6	16	36·0	36·4	94	95	7·6	7·7	5·78	1·65	9	17	6	1	15	6	4	14	7	5	2	14	6	3	1
Marlborough	·854	36·6	37·0	36·8	32·9	42·3	24·4	22	49·8	3	35·7	36·1	92	92	8·9	7·5	3·67	·93	9	15	6	1	20	1	4	6	4	0	11	2	1	8	20
Strathfield T.	·851	37·8	37·2	37·5	33·0	42·9	23·4	7, 28	53·3	3	36·4	36·1	88	90	8·7	6·7	2·30	·59	7	10	4	2	17	1	4	16	2	12	5	5	4	4	4
Norwood	·848	37·6	37·3	37·4	33·6	42·3	25·4	7	52·7	3	36·3	36·0	88	88	8·9	7·3	2·81	·58	23	18	8	1	18	2	10	9	7	3	6	4	9	3	5
Croydon	·850	37·4	36·9	37·2	33·6	42·6	26·2	13	52·3	3	36·1	35·7	88	89	9·1	5·9	3·06	·52	7	14	8	1	14	1	4	9	5	7	5	6	7	6	7
South Bourne	·851	38·3	38·5	38·4	34·5	43·4	24·1	22	51·1	8	36·8	37·0	87	88	7·6	6·3	3·68	·66	14	13	3	2	11	1	7	13	6	7	3	3	6	8	3
Ramsgate ...,	·860	38·7	37·9	38·3	33·9	42·7	27·2	13	50·4	8	37·5	36·8	90	90	8·4	7·4	1·78	·34	21	25	4	1	16	4	0	17	4	2	5	15	1	5	7
Hillington ..	·824	36·1	36·4	36·2	32·9	41·7	24·9	7	50·0	3	35·2	35·6	92	93	9·2	9·2	2·93	·73	9	22	10	0	22	0	4	6	8	12	7	7	2	10	0
Lowestoft	29·824	37·4	36·6	37·0	33·0	41·2	27·4	2	49·0	10	36·4	35·6	91	91	8·3	8·8	2·25	·51	9	19	6	0	21	3	5	7	10	4	6	8	5	11	0
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

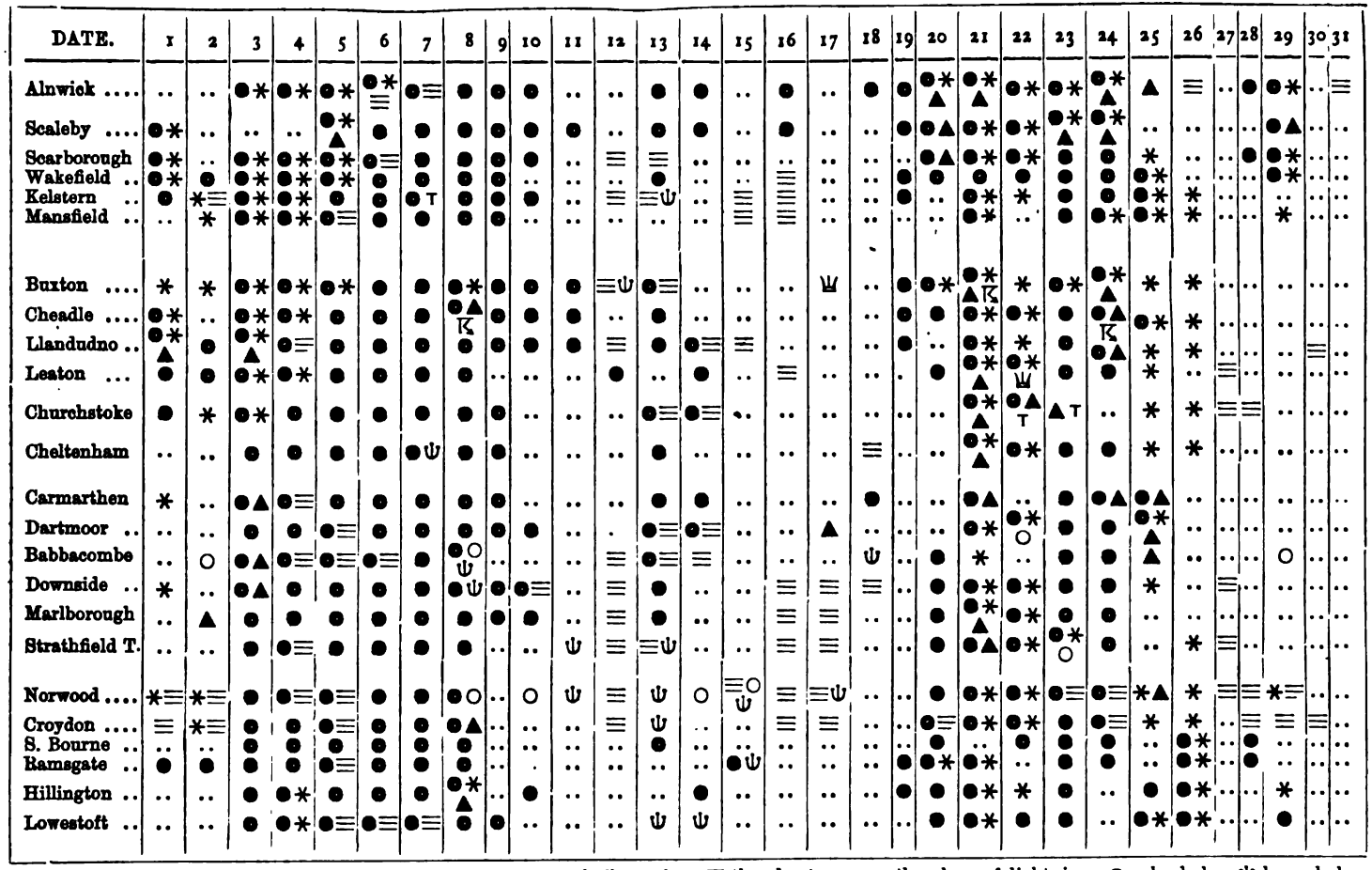
Phenomena observed at the Stations during FEBRUARY, 1881.

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Alnwick	..	●	●≡	●≡	●✳	✳≡	●✳	●	●	●✳	●✳ ▲	..	●✳	●✳ ▲	✳≡	●≡	≡	..	●≡	●✳ ▲	●✳ ▲	●✳ ▲	●✳ ▲	●	✳≡	●✳ ▲	●✳ ▲	●✳ ▲
Scaleby	..	●	●	●	●	..	●✳	●	●	●	..	..	●	●	●	..	..	..	..	..	..	..	..	..	●	●	● ..	..
Scarborough	..	●≡	●≡	●	●	●✳ ▲	●✳	●	●	●✳	●✳ ▲	✳▲	●✳	●✳	●≡	≡	≡	..	●	●▲	●✳	●✳	✳	..	●	●✳	●✳ ▲	●✳
Wakefield ..	≡	●✳ ≡	●	●	●	..	●✳	●	●	●	..	●	●	●✳	≡	..	..	●	●	●	●✳	●✳	..	..	..	●✳	..	..
Kelstern	●≡	●≡	●≡	●	●✳	✳	●✳	●	●✳	●✳	●✳	✳	✳	●	●≡	..	≡	≡	●≡	●✳	●✳	●✳	✳	..	..	●✳	●✳	✳
Mansfield ..	●≡	●✳	●	..	●✳	..	●✳	●	●	●Ψ	✳	Ψ	●✳	●✳	●≡	..	..	≡	●	●✳	●✳	●✳	..	..	●✳	●✳	●✳	●✳
Buxton	●✳ ≡	●✳ ≡	●≡	●≡	●✳	✳	●✳	●✳	●✳	●✳	✳	Ψ	●✳	●✳	●≡	≡	≡	≡	≡	≡	●✳	✳	..	≡	●✳ ▲≡	●✳	●✳	✳
Cheadle	●≡	●✳ ▲≡	●≡	●	●✳	●	●✳	●	●	●▲	✳	..	●✳	●≡	●	≡	..	..	..	✳	●	●✳	..	..	●✳	●✳	✳	✳
Llandudno..	●	●	●	●	●	●	●✳	..	●	●	✳	●	●✳	●	≡	≡	≡	..	≡	≡	≡	≡	..	≡	●	●✳ ▲	✳	●
Leaton	●	●	●	●	●	●✳	●✳	●	●	●	..	●	●✳	●	●	≡	≡	●≡	≡	..	●	●✳	..	..	✳	●	●✳	..
Churchstoke	●	●	●	●	..	..	●✳	●	●	●	✳▲	●	●✳	●	●	≡	..	≡	≡	✳≡	..	●✳	..	✳	●✳	●✳	●✳	✳
Chelten.	●≡	●	●	●	●	Ψ	●✳	●	●	●	●✳	..	●✳	●	●	..	●	..	..	●✳	●✳	●✳	..	..	..	●✳ ▲	..	..
Carmarthen	●≡	●	●	●	●▲	●	●	..	●	●	..	●	●	●	●	..	●	..	≡	..	..	..	..	..	..	●✳	..	●
Dartmoor ..	●	≡	●	●	●✳ ▲	●✳	●▲ ⟨	●	●	●	●✳ ▲	..	●	●	●	●	●≡	●≡	●≡	≡	≡	..	..	..	..	●✳ ≡	●✳	..
Babbacombe	●≡ ○	●	●≡	●≡	●✳	●	●▲ ⟨Ψ	●▲ ⟨	●≡	●▲ ⟨	●✳	●○ Ψ	●	●≡	●≡	..	●≡	≡	≡	●≡	..	..	✳	..	..	●	●✳ ≡	..
Downside ..	●≡	●	●	●	..	●	●✳	..	●	●	..	●	●✳	●	●	●≡	≡	≡	≡	≡	●✳	●✳	..	..	..	●✳	●✳ ▲	..
Marlborough	●≡	●	●≡	●	..	..	●✳	●	●	●	✳	Ψ	●✳	●	●	≡	●≡	≡	≡	●≡	✳▲	●✳	●✳	..	..	..	..	..
Strathfield T.	●≡	●	●	●	..	..	●✳	..	●	●	..	≡	✳≡	●	●≡	≡	≡	≡	≡	≡	✳	✳	●	.	..	..	..	..
Norwood ..	●≡	●	●	●	●	..	●✳ ≡	●	●	●	●✳ ≡	≡	✳≡	●Ψ	●≡	≡	≡	≡	●≡	●≡	●✳ ≡	●≡	●✳ ≡	✳≡	≡	≡	●✳ ≡	✳≡
Croydon	●≡	●≡	●	●≡	✳	≡	●✳ ≡	..	●	●▲ Ψ	✳≡	≡	✳≡	●	●≡	≡	≡	≡	●≡	●≡	✳≡	≡	●✳ ≡	✳≡	≡	●≡	●✳	≡
S. Bourne ..	●≡	●	●	●	..	..	●⟨	..	●	●	..	..	●	●	●	..	≡	≡	..	●✳	●✳	●✳	●✳	..	..	..	..	..
Ramsgate ..	●≡	●	●	●	●	●✳	●	●	●	●	●	●	..	●	●	●	●	..	●	●	●	●	●	●	●✳	..	●✳	●✳
Hillington ..	●≡	●	●	●	●▲	●✳ ▲	●✳ ▲	●	●✳	●✳ Ψ	●✳ Ψ	●✳	..	●	●	●	●≡	●	..	..	●✳	●✳	..	..	..	●	●✳	●✳
Lowestoft ..	●≡	●≡	●≡	●	●	●✳ ▲	●✳ ▲	●	●	●	●✳	..	..	●	●	..	●	..	..	..	●	..	●▲	..	..	●✳ ▲	●✳	●✳

Explanation of the Symbols.—● indicates rain; ✳ snow; ▲ hail; ≡ fog; ⟨ thunderstorm; ⊤ thunder; ⟨ lightning; ○ solar halo; Ψ lunar halo; Ψ aurora.

Abstract of Meteorological Observations for the Month of MARCH, 1881.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather, No. of days of					Wind, No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	%	%			In.	In.														
Alnwick.....	29·804	37·6	36·1	36·9	32·1	44·7	18·6	2	56·4	17	35·3	34·4	81	85	6·9	6·1	3·71	1·32	5	20	10	4	16	0	4	0	2	10	2	11	16	8	9
Scaleby.....	·815	38·4	37·8	38·1	31·8	44·1	15·0	2	55·0	15	36·7	36·3	86	87	7·4	5·5	2·82	·53	8	18	6	5	14	6	0	5	17	4	1	19	7	1	8
Scarborough..	·839	40·4	39·4	39·9	34·9	45·9	22·4	1	60·8	17	38·7	38·3	86	91	6·3	4·8	2·94	·92	5	16	8	5	11	3	5	2	1	10	7	11	18	8	0
Wakefield....	·859	39·6	39·5	39·5	34·2	46·1	19·1	2	56·2	7	37·8	38·1	86	88	7·4	6·3	3·68	1·20	5	18	6	3	12	6	6	3	8	6	5	4	24	6	0
Kelstern	·876	39·7	37·0	38·9	32·3	47·0	20·1	1	59·1	17	38·2	36·1	88	92	5·6	5·2	2·09	·65	5	14	7	5	7	2	..	..	..	..	..	..	..	..	3
Mansfield	·879	39·8	37·9	38·8	33·8	47·1	16·8	1	58·6	11	38·1	36·7	86	89	6·5	5·7	3·07	·89	5	11	8	5	13	0	4	2	7	9	5	7	26	2	0
Buxton	·914	37·8	36·3	37·0	30·9	43·7	15·3	1	52·2	10, 17	36·7	35·4	90	92	7·4	6·8	6·37	1·56	8	15	13	2	14	1	0	6	3	14	0	3	6	29	1
Cheadle.....	·877	38·7	38·0	38·4	33·1	46·0	21·0	1	57·9	11	37·1	36·6	87	88	6·4	5·3	3·31	·78	5	18	7	6	12	7	5	4	13	5	2	3	15	9	6
Llandudno ..	·853	42·9	42·0	42·5	37·4	47·5	28·0	31	56·0	17	40·4	39·7	81	82	7·2	5·4	2·13	·42	8	17	6	6	15	1	5	5	8	6	3	2	29	4	0
Leaton	·891	40·4	39·7	40·1	34·1	48·2	18·1	1	60·0	17	38·4	38·0	84	86	6·0	5·1	1·81	·48	5	15	5	10	13	..	5	3	5	9	5	6	24	2	3
Churchstoke..	·889	40·5	39·8	40·1	33·5	47·4	16·3	1	58·0	17	38·5	38·1	84	86	6·7	5·2	2·07	·47	5	12	5	5	11	4	1	6	5	11	3	10	7	16	3
Cheltenham...	·883	42·1	41·0	41·5	33·9	50·2	19·5	1, 29	58·5	17	39·4	39·0	79	84	7·0	5·7	1·54	·43	5	12	4	3	10	1	3	4	4	10	7	5	9	11	9
Carmarthen ..	·884	43·3	41·9	42·6	36·5	50·1	22·2	1	60·5	17	41·0	40·2	83	86	6·6	6·0	4·13	·70	5, 23	14	1	8	16	1	3	0	17	1	1	8	17	3	12
Dartmoor	·925	40·2	38·9	39·5	33·5	44·7	18·0	1	53·6	17	38·7	38·1	88	93	7·9	6·1	10·25	1·56	5	15	3	4	17	2	2	4	13	3	3	15	10	10	2
Babbacombe..	·913	44·7	42·7	43·7	38·3	49·8	21·3	2	59·0	17	41·7	40·9	78	86	6·9	6·0	4·56	1·50	13	10	1	3	14	5	3	6	11	4	4	10	18	6	0
Downside	·909	40·9	40·6	40·7	35·1	48·4	22·9	2	60·0	16	39·7	39·5	90	91	6·4	6·2	3·41	·74	5	14	4	5	13	3	3	11	7	4	3	14	13	6	1
Marlborough	·919	40·9	40·0	40·5	34·2	50·2	22·3	1	61·0	16	38·7	38·5	82	88	6·1	5·3	2·77	·64	4	14	2	8	14	0	0	2	11	1	1	8	15	0	24
Strathfield T.	·921	43·1	40·9	42·0	34·6	51·8	22·2	27	61·7	16	40·2	39·2	78	86	6·4	4·9	1·59	·46	5	11	3	7	12	0	3	10	5	6	2	8	15	10	3
Norwood	·919	42·1	41·1	41·6	35·8	50·8	24·0	1	59·9	16	39·7	39·1	81	84	7·0	4·8	1·64	·43	4	11	7	6	13	2	0	6	7	6	3	6	20	4	10
Croydon	·919	42·2	40·5	41·3	35·7	50·5	23·2	27	61·4	16	39·5	38·6	79	85	7·0	4·0	1·48	·49	5	11	5	6	10	0	0	5	9	4	5	13	14	2	10
South Bourne	·922	43·1	41·7	42·4	37·5	49·5	24·2	1	59·7	17	40·4	39·8	80	85	5·4	4·7	2·46	·64	5	13	1	9	9	2	5	7	11	5	2	4	12	14	2
Ramsgate	·931	43·0	42·3	42·6	37·4	48·4	27·2	1	57·5	10	41·3	40·9	87	89	6·6	6·5	1·70	·42	4	16	3	6	14	3	0	9	2	8	2	20	10	6	5
Hillington.....	·877	41·5	38·2	39·9	33·1	48·6	23·0	27	59·7	11	39·5	36·9	84	88	7·1	6·5	2·06	·47	5	14	6	3	12	5	1	6	4	13	4	9	9	16	0
Lowestoft	29·883	41·8	39·8	40·8	35·2	48·0	23·0	1	60·1	11	39·9	38·3	85	87	6·0	4·7	1·78	·69	5	14	4	6	9	4	2	4	8	10	0	6	23	9	0
Columns	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33



EXPLANATION OF THE SYMBOLS.—● indicates rain; ✱ snow; ▲ hail; ≡ fog; ⟆ thunderstorm; T thunder; ⟋ lightning; ○ solar halo; ψ lunar halo; ♕ aurora.

Abstract of Climatological Observations for the Quarter ending MARCH 31st, 1881.

JANUARY.

Station.	Means at 9 a.m.		Temperature. Means.				Temperature. Extremes in Month.			Mean Amount of Cloud at 9 a.m.	Rain.	
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.	
Alnwick	29·0	82	23·1	36·8	13·7	30·0	0·1	49·7	49·6	6·1	2·21	12
Stapleton	25·1	80	19·5	33·3	13·8	26·4	2·0	45·0	43·0	6·2	1·05	6
Scaleby	24·0	81	19·7	33·2	13·5	26·5	—7·0	46·5	53·5	5·9	·91	10
Alston	22·0	71	13·5	33·0	19·5	23·3	—9·0	42·8	51·8	6·6	·82	13
Cockermouth	25·6	84	20·2	34·5	14·3	27·4	4·4	47·0	42·6	5·5	·73	8
Seathwaite	26·0	80	20·8	34·1	13·3	27·5	6·9	48·0	41·1	4·8	1·18	10
St. Mich.-on-Wyre	26·0	84	19·7	35·8	16·1	27·8	—7·5	47·1	54·6	5·2	·69	10
Blackpool	27·2	87	21·6	35·5	13·9	28·6	—0·5	45·0	45·5	5·0	·58	8
Blackburn	27·4	95	21·2	35·3	14·1	28·3	6·4	47·2	40·8	7·2	·68	13
Scarborough	31·8	90	28·6	35·8	7·2	32·2	10·5	44·8	34·3	7·1	1·38	17
,, (St. Nichs.)	31·0	..	25·6	36·2	10·6	30·9	7·7	46·0	38·3	7·2	1·04	13
Wakefield	29·9	90	25·1	35·7	10·6	30·4	12·1	47·9	35·8	..	·33	6
Hodsock	27·1	87	21·5	35·3	13·8	28·4	1·6	48·1	46·5	6·7	·66	14
Kelstern	26·9	90	23·5	33·6	10·1	28·6	2·5	45·3	42·8	4·5	·90	16
Mansfield	27·2	..	23·1	34·0	10·9	28·6	6·0	45·2	39·2	6·8	·69	9
Buxton	26·3	89	19·8	33·5	13·7	26·7	1·2	45·6	44·4	6·3	·57	6
Macclesfield	27·0	82	22·2	35·1	12·9	28·7	3·3	45·9	42·6	3·7	·49	10
Beacon Stoop	29·1	84	24·0	33·7	9·7	28·9	7·7	49·0	41·3	6·6	·43	8
Farley	27·6	82	23·6	34·8	11·2	29·2	10·7	47·1	36·4	6·8	·42	9
Oakamoor	25·9	85	20·8	35·0	14·2	27·9	3·1	46·8	43·7	6·7	·59	8
Cheadle	27·2	84	24·2	33·7	9·5	29·0	9·9	45·0	35·1	5·6	·39	8
Belper	27·7	83	23·4	34·6	11·2	29·0	6·5	47·0	40·5	4·7	·59	8
Strelley	27·1	86	22·6	34·3	11·7	28·5	0·8	45·4	44·6	6·4	·64	12
Loughborough	26·3	87	21·8	35·0	13·2	28·4	1·9	49·1	47·2	6·7	·60	13
Llandudno	34·3	81	29·4	39·2	9·8	34·3	14·5	48·2	33·7	5·6	1·79	10
Colwyn Bay	32·5	82	28·2	38·6	10·4	33·4	14·2	48·8	34·6	6·1	·65	7
Chester	26·8	88	21·8	34·7	12·9	28·3	0·8	47·3	46·5	..	·46	11
Leaton	25·6	..	20·0	33·6	13·6	26·8	1·0	47·1	46·1	..	·39	8
Churchstoke	25·5	88	21·5	33·6	12·1	27·6	—1·0	48·5	49·5	5·5	·78	8

FEBRUARY.

Station.	Means at 9 a.m.		Temperature. Means.				Temperature. Extremes in Month.			Mean Amount of Cloud at 9 a.m.	Rain.	
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.	
Alnwick	33·7	89	30·9	39·6	8·7	35·2	24·5	48·4	23·9	7·6	4·08	21
Stapleton	33·9	90	30·2	38·6	8·4	34·4	20·5	47·0	26·5	8·2	3·13	11
Scaleby	34·9	90	31·0	40·6	9·6	35·8	20·0	50·2	30·2	7·5	3·03	14
Alston	30·9	86	25·8	37·2	11·4	31·5	9·8	44·8	35·0	8·2	3·72	19
Cockermouth	36·0	89	31·8	42·7	10·9	37·2	20·3	52·0	31·7	8·0	3·15	17
Seathwaite	35·1	90	31·5	41·2	9·7	36·3	20·1	48·7	28·6	7·9	10·87	16
St. Mich.-on-Wyre	36·5	88	32·2	41·7	9·5	36·9	23·2	49·7	26·5	7·2	4·81	14
Blackpool	36·6	89	32·8	41·3	8·5	37·0	24·6	49·0	24·4	6·9	4·31	16
Blackburn	35·9	94	30·2	40·8	10·6	35·5	21·1	50·3	29·2	7·9	5·56	16
Scarborough	36·7	91	34·3	39·5	5·2	36·9	29·8	49·5	19·7	8·6	3·13	21
,, (St. Nichs.)	35·7	93	33·0	39·5	6·5	36·3	28·2	49·1	20·9	8·8	3·18	24
Wakefield	36·0	89	32·3	41·1	8·8	36·7	23·8	53·0	29·2	8·8	3·82	17
Hodsock	35·9	91	32·0	42·1	10·1	37·1	23·3	52·7	29·4	8·6	3·77	21
Kelstern	34·4	94	31·0	39·3	8·3	35·1	24·5	50·3	25·8	8·2	3·83	18
Mansfield	34·9	92	31·8	40·7	8·9	36·2	21·8	49·6	27·8	8·5	4·44	19
Buxton	33·4	94	28·5	39·5	11·0	34·0	15·9	47·3	31·4	8·4	9·08	16
Macclesfield	35·3	94	31·6	40·5	8·9	36·0	23·2	49·9	26·7	6·2	5·11	16
Beacon Stoop	32·3	93	28·5	36·2	7·7	32·3	20·6	46·8	26·2	8·4	2·86	19
Farley	34·7	91	31·1	40·2	9·1	35·7	24·1	48·7	24·6	8·4	5·78	18
Oakamoor	34·8	93	30·8	40·8	10·0	35·8	20·3	49·8	29·5	7·8	6·22	15
Cheadle	34·3	94	31·6	40·0	8·4	35·8	22·1	48·6	26·5	7·7	5·39	17
Belper	35·6	89	31·8	40·7	8·9	36·3	23·4	50·2	26·8	6·6	5·87	19
Strelley	35·2	90	31·7	40·9	9·2	36·3	24·0	49·9	25·9	8·2	4·87	19
Loughborough	36·1	88	33·1	42·4	9·3	37·8	25·7	51·9	26·2	8·4	3·48	17
Llandudno	39·4	84	36·0	44·7	8·7	40·4	28·0	53·6	25·6	7·4	3·05	15
Colwyn Bay	38·4	84	34·8	44·2	9·4	39·5	25·6	55·4	29·8	7·6	2·45	17
Chester	37·1	88	33·2	43·2	10·0	38·2	23·4	54·1	30·7	8·2	3·10	18
Leaton	35·9	91	31·6	41·8	10·2	36·7	17·8	51·0	33·2	6·9	3·56	19
Churchstoke	36·0	92	32·0	42·6	10·6	37·3	21·2	51·9	30·7	7·8	4·29	16

MARCH.

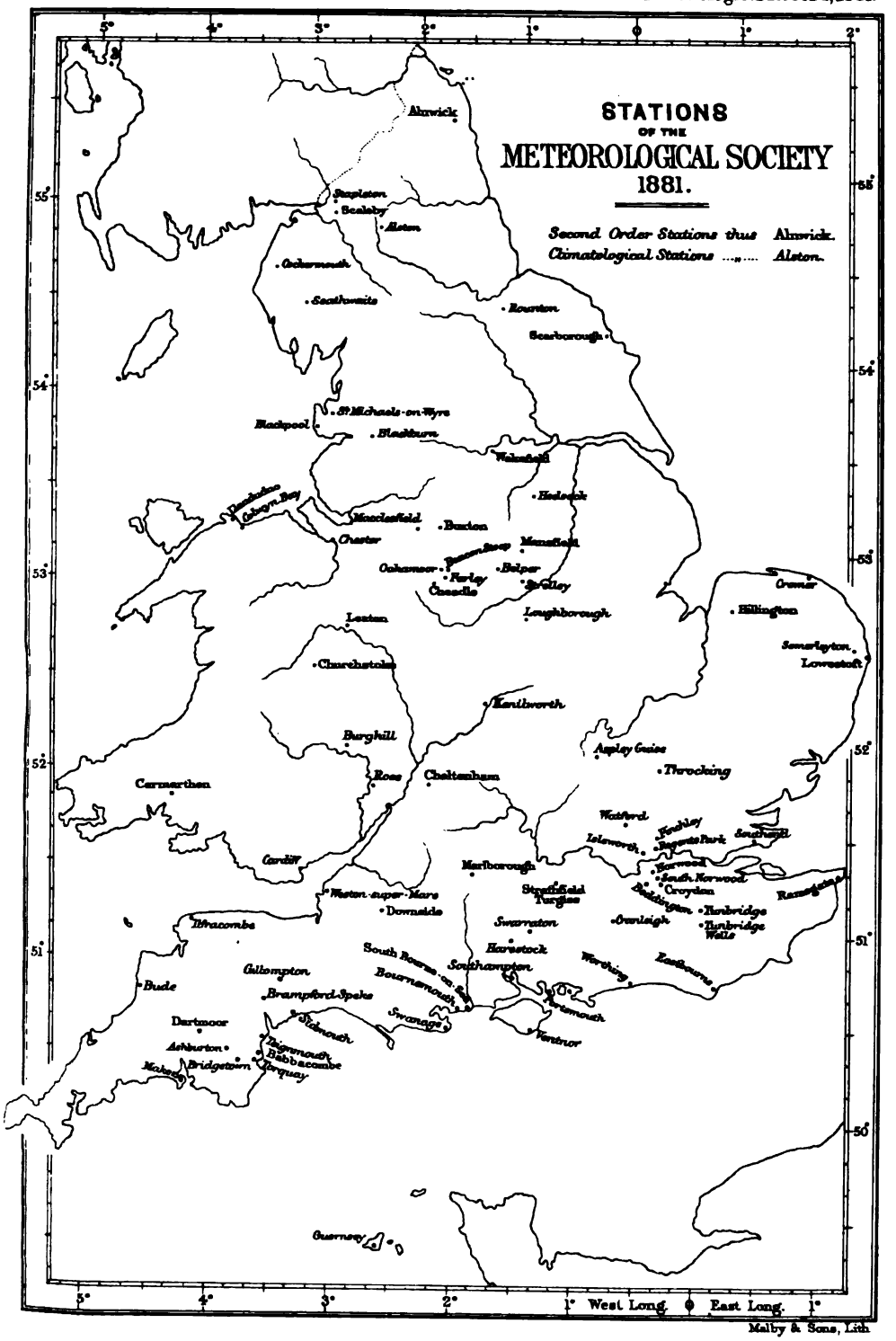
Station.	Means at 9 a.m.		Temperature. Means.				Temperature. Extremes in Month.			Mean Amount of Cloud at 9 a.m.	Rain.	
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.	
Alnwick	37·6	81	32·1	44·7	12·6	38·4	18·6	56·4	37·8	6·9	3·71	20
Stapleton	37·1	86	30·0	43·3	13·3	36·7	14·0	57·6	43·6	6·6	4·89	19
Scaleby	38·4	86	31·8	44·1	12·3	37·9	15·0	55·0	40·0	7·4	2·82	18
Alston	34·8	87	25·9	41·6	15·7	33·7	0·0	53·8	53·8	6·9	5·36	23
Cockermouth	40·9	82	34·0	46·7	12·7	40·4	18·2	58·0	39·8	7·6	3·93	19
Seathwaite	37·6	88	32·6	45·1	12·5	38·9	16·2	58·2	42·0	7·8	15·07	22
St. Mich.-on-Wyre	40·4	85	34·5	46·6	12·1	40·6	21·0	54·8	33·8	7·6	3·65	19
Blackpool	40·0	85	35·3	44·3	9·0	39·8	22·8	49·6	26·8	8·0	3·61	18
Blackburn	39·6	91	32·0	45·3	13·3	38·6	21·0	53·0	32·0	7·9	4·45	21
Scarborough	40·4	86	34·9	45·9	11·0	40·4	22·4	60·8	38·4	6·3	2·94	16
,, (St. Nichs.)	38·8	92	33·0	45·1	12·1	39·0	20·2	59·4	39·2	6·0	3·08	16
Wakefield	39·6	86	34·2	46·1	11·9	40·2	19·1	56·2	37·1	7·4	3·68	18
Hodsock	41·3	81	34·6	48·3	13·7	41·4	21·3	58·9	37·6	5·9	2·56	13
Kelstern	39·7	88	32·3	47·0	14·7	39·7	20·1	59·1	39·0	5·6	2·09	14
Mansfield	39·8	86	33·8	47·1	13·3	40·5	16·8	58·6	41·8	6·5	3·07	11
Buxton	37·8	90	30·9	43·7	12·8	37·3	15·3	52·2	36·9	7·4	6·37	15
Macclesfield	39·6	87	34·2	46·1	11·9	40·2	19·9	55·2	35·3	3·5	3·97	16
Beacon Stoop	36·3	87	31·8	42·2	10·4	37·0	20·8	53·8	33·0	7·2	2·13	16
Farley	39·3	82	33·7	45·8	12·1	39·7	20·2	57·4	37·2	6·8	3·38	18
Oakamoor	39·6	80	32·8	46·9	14·1	39·9	16·5	58·0	41·5	7·1	3·84	18
Cheadle	38·7	87	33·1	46·0	12·9	39·5	21·0	57·9	36·9	6·4	3·31	18
Belper	39·5	84	34·3	47·5	13·2	40·9	23·5	59·2	35·7	5·4	3·63	14
Strelley	39·9	83	34·1	47·1	13·0	40·6	19·8	58·5	38·7	6·0	2·84	12
Loughborough	40·6	82	35·1	50·0	14·9	42·5	23·0	62·4	39·4	7·0	1·74	13
Llandudno	42·9	81	37·4	47·5	10·1	42·4	28·0	56·0	28·0	7·2	2·13	17
Colwyn Bay	43·2	79	37·4	48·4	11·0	42·9	25·5	59·5	34·0	6·5	2·63	16
Chester	42·0	78	36·0	48·6	12·6	42·3	20·7	61·0	40·3	7·4	2·69	19
Leaton	40·4	84	34·1	48·2	14·1	41·2	18·1	60·0	41·9	6·0	1·81	15
Churchstoke	40·5	84	33·5	47·4	13·9	40·4	16·3	58·0	41·7	6·7	2·07	12

Abstract of Climatological Observations for the Quarter ending MARCH 31st, 1881.

Station.	JANUARY.												FEBRUARY.												MARCH.											
	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.								Means.				Extremes in Month.								Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.	
Kenilworth ..	26·8	90	21·9	33·7	11·8	27·8	3·7	47·4	43·7	7·0	·77	12	36·4	91	32·7	41·5	8·8	37·1	23·1	50·6	27·5	8·4	4·38	21	41·1	82	34·3	49·0	14·7	41·7	22·6	59·9	37·3	6·5	1·91	14
Cheltenham	27·2	85	20·7	34·4	13·7	27·6	—3·3	48·0	51·3	6·9	1·55	12	38·0	88	31·4	42·8	11·4	37·1	13·5	52·0	38·5	8·5	3·03	18	42·1	79	33·9	50·2	16·3	42·0	19·5	58·5	39·0	7·0	1·54	12
Burghill	26·9	..	21·3	35·0	13·7	28·2	1·1	47·7	46·6	6·5	1·44	10	37·2	89	33·2	43·0	9·8	38·1	24·8	51·4	26·6	7·4	2·94	19	42·5	79	35·1	51·1	16·0	43·1	22·1	61·8	39·7	6·0	1·56	11
Ross	26·6	..	22·1	34·5	12·4	28·3	2·9	49·0	46·1	6·5	1·65	11	38·0	90	34·0	43·5	9·5	38·8	25·4	51·8	26·4	6·9	3·08	20	43·5	76	35·3	51·6	16·3	43·5	22·6	63·0	40·4	4·7	1·87	13
Carmarthen ..	29·3	86	25·1	37·9	12·8	31·5	3·8	50·3	46·5	6·2	? 1·32	12	39·7	87	35·2	46·0	10·8	40·6	21·8	55·2	33·4	6·9	5·38	16	43·3	83	36·5	50·1	13·6	43·3	22·2	60·5	38·3	6·6	4·13	14
Cardiff.....	30·5	88	27·1	36·8	9·7	32·0	13·4	47·0	33·6	..	2·00	12	38·7	89	35·7	43·4	7·7	39·5	29·1	51·0	21·9	..	4·81	15	42·5	84	37·3	49·0	11·7	43·2	24·8	57·0	32·2	..	3·88	16
Weston-s-Mare	31·9	90	28·2	37·7	9·5	33·0	14·0	52·7	38·7	7·4	1·90	10	39·1	89	35·8	45·0	9·2	40·4	28·0	54·9	26·9	7·7	2·85	13	42·9	85	37·8	49·3	11·5	43·5	26·4	56·3	29·9	6·4	1·79	11
Downside	28·6	94	25·2	35·2	10·0	30·2	8·8	47·2	38·4	7·9	3·15	12	36·6	94	33·1	42·6	9·5	37·9	25·0	51·6	26·6	7·6	5·78	17	40·9	90	35·1	48·4	13·3	41·7	22·9	60·0	37·1	6·4	3·41	14
Ilfracombe ..	37·0	85	32·3	41·0	8·7	36·7	20·0	52·0	32·0	7·0	1·02	10	42·8	89	39·1	46·3	7·2	42·7	32·0	55·0	23·0	6·8	2·76	12	45·5	84	40·8	49·7	8·9	45·2	28·5	57·5	29·0	6·6	2·35	16
Bude	31·3	90	25·4	39·4	14·0	32·4	3·7	52·5	48·8	6·4	2·90	14	40·2	92	36·0	46·4	10·4	41·2	24·8	53·0	28·2	6·6	2·67	9	43·6	89	37·8	49·8	12·0	43·8	19·8	56·5	36·7	6·1	2·50	13
Maker	33·4	88	29·6	39·5	9·9	34·5	17·3	52·5	35·2	7·2	2·18	17	40·2	90	37·5	45·6	8·1	41·6	27·5	53·5	26·0	7·7	4·03	16	43·3	85	39·2	49·9	10·7	44·5	23·7	61·4	37·7	6·8	4·01	14
Dartmoor	..	..	..	..	..	..	10·0	44·0	34·0	..	..	..	35·6	..	31·5	40·0	8·5	35·8	20·0	47·2	27·2	9·1	11·23	19	40·2	88	33·5	44·7	11·2	39·1	18·0	56·3	38·3	7·9	10·25	15
Ashburton	33·2	90	27·9	38·9	11·0	33·4	15·6	51·1	35·5	6·8	3·33	15	39·9	92	35·2	44·9	9·7	40·1	23·2	52·4	29·2	8·1	8·10	18	45·0	84	37·4	50·4	13·0	43·9	25·1	60·5	35·4	6·7	7·42	16
Bridgetown....	31·3	87	25·4	40·8	15·4	33·1	8·8	54·2	45·4	7·6	3·08	14	39·9	90	35·2	46·5	11·3	40·9	18·3	55·1	36·8	8·9	5·94	19	44·7	79	36·0	52·5	16·5	44·2	8·8	64·2	55·4	7·0	4·86	14
Torquay, C. C.	34·1	91	29·2	39·4	10·2	34·3	18·0	51·2	33·2	6·0	2·31	13	40·6	89	36·8	44·4	7·6	40·6	22·9	52·0	29·1	8·3	4·37	15	44·4	82	39·0	49·7	10·7	44·4	22·1	58·5	36·4	6·5	4·28	8
Torquay, R. ..	34·0	87	29·1	39·9	10·8	34·5	15·6	50·7	35·1	7·8	2·81	12	39·7	90	35·8	44·8	9·0	40·3	24·7	51·7	27·0	8·5	4·33	15	44·1	78	38·2	50·0	11·8	44·1	21·7	60·0	38·3	6·8	4·03	9
Babbacombe ..	34·5	86	29·5	40·6	11·1	35·1	15·3	54·9	39·6	8·0	2·44	14	40·4	88	36·2	44·6	8·4	40·4	26·1	51·2	25·1	8·5	4·66	19	44·7	78	38·3	49·8	11·5	44·0	21·3	59·0	37·7	6·9	4·56	10
Teignmouth, B.	34·0	86	29·0	41·4	12·4	35·2	15·7	50·3	34·6	7·5	2·69	9	40·6	86	36·9	46·2	9·3	41·6	26·0	52·9	26·9	8·6	4·06	19	44·8	78	39·0	51·4	12·4	45·2	21·4	63·0	41·6	6·5	4·56	16
Teignmouth, W.	34·6	93	27·0	41·7	14·7	34·4	11·3	54·2	42·9	7·0	2·72	11	41·7	89	34·8	46·1	11·3	40·4	22·3	54·4	32·1	7·6	4·42	18	46·2	83	36·9	52·2	15·3	44·6	19·7	63·0	43·3	5·8	4·60	15
Sidmouth	32·0	91	27·6	38·4	10·8	33·0	13·0	50·4	37·4	7·1	2·77	10	39·8	89	36·2	44·4	8·2	40·3	26·3	52·7	26·4	8·6	4·92	17	43·3	83	38·0	49·6	11·6	43·8	25·3	56·2	30·9	7·2	3·56	13
Brampford Spk.	29·2	..	24·6	35·9	11·3	30·3	10·6	47·9	37·3	8·5	2·53	15	38·8	93	34·9	44·3	9·4	39·6	18·6	53·1	34·5	8·6	4·69	17	42·9	85	37·3	50·1	12·8	43·7	19·2	57·9	38·7	7·5	3·16	14
Cullompton ..	29·2	87	24·1	37·1	13·0	30·6	7·1	49·9	42·8	7·1	2·21	12	39·2	87	34·7	44·6	9·9	39·7	20·7	53·2	32·5	8·1	4·64	16	43·5	80	36·4	50·9	14·5	43·6	18·3	61·3	43·0	6·1	3·56	13
Swanage	33·8	..	28·7	38·2	9·5	33·5	12·7	48·3	35·6	6·2	3·04	10	39·5	88	35·2	42·5	7·3	38·8	26·1	48·9	22·8	6·9	3·49	10	44·4	78	38·4	48·0	9·6	43·2	25·7	58·6	32·9	6·0	2·89	11
Bournemouth ..	30·3	76	25·8	38·7	12·9	32·3	11·2	50·7	39·5	6·1	3·17	9	37·8	90	33·9	43·8	9·9	38·8	24·5	52·1	27·6	6·9	3·96	12	43·3	79	36·9	50·7	13·8	43·8	24·0	61·7	37·7	4·7	2·90	12
South Bourne ..	30·4	84	27·1	37·3	10·2	32·2	12·1	47·6	35·5	6·7	2·52	12	38·3	87	34·5	43·4	8·9	39·0	24·1	51·1	27·0	7·6	3·68	13	43·1	80	37·5	49·5	12·0	43·5	24·2	59·7	35·5	5·4	2·46	13
Southampton..	30·3	88	24·7	37·3	12·6	31·0	8·1	52·6	44·5	6·7	2·91	12	38·7	87	33·5	44·4	10·9	39·0	23·6	53·7	30·1	8·0	3·44	15	44·0	80	35·7	51·7	16·0	43·7	20·2	61·1	40·9	5·6	2·55	13
Portsmouth ..	31·4	..	20·7	37·9	17·2	29·3	7·4	51·5	44·1	5·5	2·31	10	38·7	87	28·5	43·9	15·4	36·2	21·2	50·5	29·3	7·6	3·14	15	43·2	81	33·0	50·7	17·7	41·9	20·2	63·6	43·4	4·6	2·30	14
Ventnor	33·8	88	29·4	40·4	11·0	34·9	14·9	50·6	35·7	6·8	3·23	13	39·5	88	36·1	45·3	9·2	40·7	26·4	53·1	26·7	6·7	4·14	15	44·4	81	39·3	50·8	11·5	45·1	27·4	59·9	32·5	6·5	2·60	12

Abstract of Climatological Observations for the Quarter ending MARCH 31st, 1881.

Station.	JANUARY.												FEBRUARY.												MARCH.											
	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.								Means.				Extremes in Month.								Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°		In.	
Worthing	31·7	..	26·9	37·7	10·8	32·3	13·5	47·5	34·0	6·1	2·83	9	39·4	88	35·1	43·3	8·2	39·2	27·3	50·5	23·2	6·9	3·51	13	43·6	80	37·2	49·0	11·8	43·1	25·6	57·2	31·6	5·9	2·68	11
Eastbourne ..	32·5	86	27·8	38·6	10·8	33·2	15·1	48·7	33·6	6·2	2·75	..	39·0	89	35·1	43·4	8·3	39·3	29·2	49·6	20·4	..	3·23	13	43·5	81	38·0	49·1	11·1	43·5	27·2	60·9	33·7	6·4	3·33	13
Ramsgate	32·6	88	29·1	37·8	8·7	33·5	15·0	49·6	34·6	7·3	1·15	13	38·7	90	33·9	42·7	8·8	38·3	27·2	50·4	23·2	8·4	1·78	25	43·0	87	37·4	48·4	11·0	42·9	27·2	57·5	30·3	6·6	1·70	16
Marlborough ..	27·2	91	24·5	35·2	10·7	29·9	6·9	48·8	41·9	7·6	2·68	10	36·6	92	32·9	42·3	9·4	37·6	24·4	49·8	25·4	8·9	3·67	15	40·9	82	34·2	50·2	16·0	42·2	22·3	61·0	38·7	6·1	2·77	14
Harestock	29·2	75	24·7	35·7	11·0	30·2	6·1	49·3	43·2	7·5	4·21	..	37·5	86	..	43·2	..	..	24·0	50·6	26·6	8·4	3·14	11	42·2	75	34·9	50·8	15·9	42·9	22·1	61·3	39·2	6·4	2·61	10
Swarraton	28·3	..	23·6	35·3	11·7	29·5	6·1	49·1	43·0	6·1	2·43	10	37·2	92	32·9	42·5	9·6	37·7	22·3	49·5	27·2	8·5	2·05	10	41·5	84	34·2	50·4	16·2	42·3	18·6	61·5	42·9	6·9	2·42	10
Strathfield Turg.	29·2	84	23·5	36·0	12·5	29·8	3·9	49·1	45·2	6·9	1·19	10	37·8	88	33·0	42·9	9·9	37·9	23·4	53·3	29·9	8·7	2·30	10	43·1	78	34·6	51·8	17·2	43·2	22·2	61·7	39·5	6·4	1·59	11
Cranleigh	31·0	..	23·1	37·8	14·7	30·5	7·1	47·9	40·8	6·8	1·43	7	37·7	89	32·2	42·5	10·3	37·3	25·1	50·9	25·8	8·0	2·99	14	43·1	82	35·5	51·2	15·7	43·4	23·2	62·8	39·6	5·9	2·36	12
Tunb. Wells ..	29·5	92	25·2	35·3	10·1	30·3	7·2	48·0	40·8	7·5	1·67	19	36·5	92	32·7	41·3	8·6	37·0	26·1	50·0	23·9	8·6	3·06	16	41·8	82	35·7	49·3	13·6	42·5	22·2	59·9	37·7	5·8	2·44	11
Tunbridge	30·0	90	25·5	36·5	11·0	31·0	0·5	49·7	49·2	6·4	1·44	13	37·7	90	33·6	42·5	8·9	38·1	24·8	52·4	27·6	8·3	2·69	14	43·3	79	35·5	51·2	15·7	43·3	23·6	60·9	37·3	5·5	1·92	11
Beddington....	29·2	91	23·8	36·4	12·6	30·1	7·2	52·3	45·1	6·8	1·54	10	37·4	88	33·7	42·1	8·4	37·9	25·4	51·8	26·4	8·5	2·81	13	41·8	82	35·2	50·9	15·7	43·1	22·4	60·3	37·9	6·0	1·37	11
Croydon	29·5	88	26·6	36·2	9·6	31·4	11·6	50·4	38·8	7·3	? 1·27	10	37·4	88	33·6	42·6	9·0	38·1	26·2	52·3	26·1	9·1	3·06	14	42·2	79	35·7	50·5	14·8	43·1	23·2	61·4	38·2	7·0	1·48	11
South Norwood.	29·9	92	25·5	36·3	10·8	30·9	11·1	49·7	38·6	8·1	1·45	9	37·3	91	33·6	42·5	8·9	38·1	25·9	51·9	26·0	8·8	2·59	15	42·1	81	35·8	51·1	15·3	43·4	23·6	60·6	37·0	6·4	1·20	12
Norwood	29·7	86	26·7	36·2	9·5	31·5	10·8	49·7	38·9	7·2	1·59	9	37·6	88	33·6	42·3	8·7	37·9	25·4	52·7	27·3	8·9	2·81	18	42·1	81	35·8	50·8	15·0	43·3	24·0	59·9	35·9	7·0	1·64	11
Isleworth	28·9	..	24·0	36·2	12·2	30·1	4·6	51·0	46·4	6·7	1·64	9	37·8	90	33·6	42·5	8·9	38·1	25·9	52·2	26·3	9·0	2·57	17	42·3	82	35·4	51·3	15·9	43·3	23·4	60·6	37·2	6·3	2·05	13
Regent's Park...	30·4	82	26·3	36·4	10·1	31·4	9·8	49·0	39·2	8·4	1·88	9	37·7	88	33·7	42·3	8·6	38·0	26·0	52·8	26·8	9·0	2·84	16	41·7	81	36·2	50·3	14·1	43·2	25·0	59·8	34·8	7·5	2·02	11
Finchley	28·5	..	24·6	35·6	11·0	30·1	8·4	49·2	40·8	6·8	1·42	11	36·8	94	32·8	40·9	8·1	36·9	24·6	50·9	26·3	8·3	3·37	21	41·0	84	34·6	49·1	14·5	41·8	21·5	58·4	36·9	6·2	2·17	10
Watford	28·4	88	24·1	35·1	11·0	29·6	6·4	45·8	39·4	7·2	1·56	14	37·0	89	33·1	41·8	8·7	37·5	24·5	50·7	26·2	8·4	3·76	20	41·6	81	34·6	49·7	15·1	42·1	22·8	59·0	36·2	5·7	2·14	12
Throcking	27·3	93	23·5	33·5	10·0	28·5	10·7	48·1	37·4	6·8	1·01	13	35·1	93	31·6	39·9	8·3	35·8	25·4	48·9	23·5	8·6	2·93	20	40·1	84	34·0	48·9	14·9	41·4	20·2	61·2	41·0	5·5	1·56	11
Aspley Guise ..	28·3	95	23·7	34·5	10·8	29·1	6·9	49·6	42·7	5·6	1·01	11	36·5	90	32·3	40·8	8·5	36·6	24·6	50·7	26·1	8·6	2·14	16	41·6	82	34·2	49·6	15·4	41·9	23·1	60·8	37·7	6·2	1·63	10
Southend	..	..	..	..	..	..	..	48·9	..	7·1	1·03	10	37·9	94	33·8	43·0	9·2	38·4	29·0	50·0	21·0	8·4	1·79	15	43·2	87	36·4	50·5	14·1	43·5	26·0	58·9	32·9	7·3	1·38	10
Hillington	28·1	88	22·6	34·9	12·3	28·8	1·3	46·5	45·2	7·7	1·18	20	36·1	92	32·9	41·7	8·8	37·3	24·9	50·0	25·1	9·2	2·93	22	41·5	84	33·1	48·6	15·5	40·8	23·0	59·7	36·7	7·1	2·06	14
Cromer	31·3	..	26·7	..	..	..	12·1	52·0	39·9	6·7	..	..	36·0	91	32·4	..	..	..	25·1	51·0	25·9	8·5	3·13	16	41·1	83	34·6	..	..	..	20·1	63·0	42·9	6·0	2·25	11
Somerleyton ..	29·4	85	24·4	36·0	11·6	30·2	4·9	47·9	43·0	4·7	1·59	18	37·1	89	32·6	41·1	8·5	36·9	24·1	47·7	23·6	7·5	2·75	20	41·6	82	34·8	48·2	13·4	41·5	22·1	60·3	38·2	5·8	1·73	12
Lowestoft	31·4	90	27·3	36·7	9·4	32·0	9·2	48·0	38·8	5·8	1·07	16	37·4	91	33·0	41·2	8·2	37·1	27·4	49·0	21·6	8·3	2·25	19	41·8	85	35·2	48·0	12·8	41·6	23·0	60·1	37·1	6·0	1·78	14
Guernsey	38·6	84	35·2	43·4	8·2	39·3	26·4	53·5	27·1	6·4	4·18	16	43·2	91	40·0	47·5	7·5	43·8	32·3	53·7	21·4	8·2	3·86	18	46·3	81	42·4	51·9	9·5	47·1	30·3	61·7	31·4	6·9	2·20	12
Limavady	31·6	88	24·6	37·7	13·1	31·2	7·6	56·5	48·9	7·0	..	..	38·9	90	34·8	44·1	9·3	39·4	25·3	51·6	26·3	7·9	2·83	18	41·4	86	35·9	47·2	11·3	41·6	23·6	56·6	33·0	7·9	4·42	18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Ross
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Marlborough
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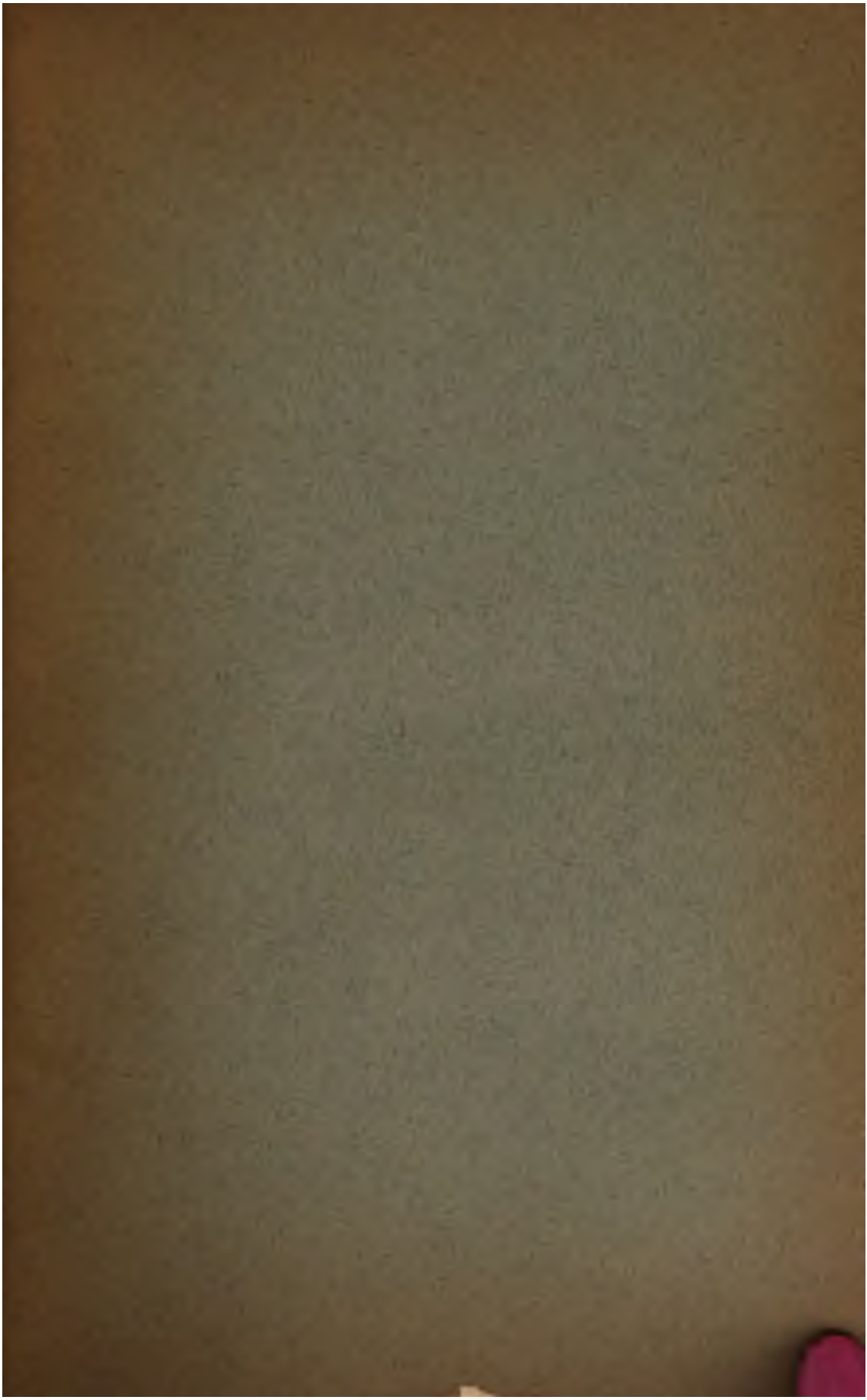

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WITH

REMARKS ON THE WEATHER

FOR THE QUARTER ENDING

DECEMBER 31st, 1881.

BY

WILLIAM MARRIOTT, F.M.S.,

Assistant-Secretary.

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REMARKS

ON THE

WEATHER OVER ENGLAND

FOR THE QUARTER ENDING DECEMBER 31ST, 1881.

THE weather during the quarter was remarkable for the heavy gales of October 14th and November 27th; the low mean temperature of October; the high mean temperature of November, and the last few days of December; and the continued low barometer readings on November 26th and 27th.

AIR TEMPERATURE was above the average.

In *October* the mean temperature (mean of maximum and minimum) was 46°·0, and varied from 51°·3 at Ilfracombe, 50°·7 at Falmouth, 50°·0 at Teignmouth, 49°·5 at Helston and Maker, and 49°·1 at Ventnor, to 41°·0 at Alston, 41°·6 at Beacon Stoop, 41°·9 at Buxton, 43°·1 at Dartmoor, 43°·7 at Scaleby, and 43°·9 at Churchstoke. Exceedingly cold weather prevailed throughout the whole of the month, the mean temperature being about 4° below the average. The maximum temperature occurred in the north-west and west on the 1st, and in the other districts generally on the 11th; the highest being:—On the 1st, 66°·8 at Cockermouth, 66°·3 at Scaleby, 64°·2 at Southampton, 63°·7 at Carmarthen, and 63°·6 at Portsmouth; on the 2nd, 65°·8 at Bridgetown, and 65°·1 at Loughborough; and on the 11th, 65°·5 at Ilfracombe, 65°·4 at Teignmouth, and 65°·3 at Babbacombe. The minimum temperature took place chiefly on the 31st, the lowest being 13°·8 at Alston, 20°·0 at Scaleby, 20°·8 at Swarraton, 20°·9 at Bridgetown, 21°·3 at Marlborough, 21°·5 at Cheltenham, and 21°·7 at Cockermouth. The mean daily range of temperature was 12°·4.

In *November* the mean temperature was 48°·2, and varied from 52°·9 at Ilfracombe, 51°·9 at Falmouth, 51°·6 at Teignmouth, 51°·5 at Maker and Ventnor, 51°·4 at Helston, and 51°·1 at Torquay, to 43°·0 at Alston, 43°·5 at Beacon Stoop, 44°·6 at Buxton, 45°·1 at Oakamoor, 45°·2 at Alnwick, 45°·3 at Stapleton, and 45°·7 at Scarborough and Cheadle. The weather throughout the month was very mild, damp, and stormy, and the mean temperature about 4° above the average. The maximum temperature occurred on various dates. The highest readings were:—On the 4th, 66°·0 at Ilfracombe; on the 5th, 64°·0 at Isleworth, 63°·7 at Strathfield Turgiss, and 63°·0 at Beddington; on the 6th, 64°·9 at Bridgetown; on the 8th, 66°·3 at Alston, 64°·0 at Bude, and 63°·7 at Carmarthen; on the 12th, 63°·2 at Teignmouth; and on the 13th, 64°·5 at Hodsock, 63°·9 at Burghill, and 63°·0 at Chester.

The minimum temperature took place mostly on the 1st and 18th. The lowest readings were:—On the 1st, 26°·3 at Portsmouth, 26°·8 at Beacon Stoop, and 26°·9 at Brampford Speke; on the 18th, 20°·6 at Alston, 26°·2 at Stapleton, and 27°·5 at Scaleby; and on the 30th, 26°·1 at Finchley, and 27°·8 at Oakamoor. The mean daily range of temperature was 10°·8.

In *December* the mean temperature was 39°·7, and varied from 45°·5 at Ilfracombe, 44°·3 at Falmouth, 44°·0 at Ventnor, 43°·7 at Helston and Maker, 43°·6 at Teignmouth and Torquay, and 43°·2 at Swanage, to 34°·9 at Alston, 35°·3 at Beacon Stoop, 36°·0 at Buxton, 36°·2 at Oakamoor, 36°·8 at Cheadle, 37°·1 at Strelley, 37°·3 at Mansfield, and 37°·4 at Belper and Kenilworth. The weather was mild from the 1st to the 7th, cool from the 8th to the 25th, and warm from the 26th to the end of the month. The maximum temperature occurred mostly on the 2nd and 6th. The highest readings were:—On the 2nd, 57°·0 at Teignmouth, 56°·4 at Bude, 55°·2 at Weston-super-Mare, 55°·0 at Ilfracombe, 54°·9 at Ventnor, 54°·8 at Helston, and 54°·7 at Falmouth; and on the 6th, 56°·5 at Llandudno, 55°·0 at Ilfracombe, 54°·9 at Swarraton, and 54°·7 at Torquay. The minimum temperature took place chiefly on the 24th. The lowest readings were:—On the 1st, 20°·1 at Oakamoor; on the 11th, 18°·2 at Macclesfield, 18°·5 at Leaton, and 20°·3 at Carmarthen; on the 23rd, 12°·3 at Alston, 19°·9 at Cockermouth, and 20°·1 at St. Michael's-on-Wyre; and on the 24th, 17°·4 at Buxton, 18°·6 at Ross, 19°·0 at Cheltenham, 19°·1 at Beddington, 19°·6 at Hillington, and 19°·9 at Strathfield Turgiss. The mean daily range of temperature was 9°·9.

Atmospheric Pressure was above the average.

In *October* the mean pressure reduced to sea-level was 30·08 ins. The highest readings were in the central and north-western districts, and the lowest in the east. The maximum occurred on the morning of the 7th, the highest reading being 30·562 ins. at Dartmoor. The minimum took place over nearly the whole of England during the passage of the severe storm on the morning of the 14th, and in the south-west on the evening of the 22nd. The lowest readings reported were:—28·455 ins. at Scaleby, at 9 a.m. on the 14th, and 29·040 ins. at Carmarthen, at 9 p.m. on the 22nd.

In *November* the pressure was lower than in the preceding month, and subject to considerable oscillations; the mean was 29·88 ins. The highest readings were in the south-east, and the lowest in the north and north-west. The maximum occurred on the evening of the 18th, the highest being 30·468 ins. at South Bourne. Very low pressure prevailed on the 26th and 27th, the mercury over the whole of England being below 29 ins. for a considerable number of hours. The lowest reading reported was 28·300 ins. at 9 a.m. on the 27th, at Scaleby.

In *December* the pressure was slightly above the average, the mean being 29·96 ins. The highest readings were in the south and the lowest in the north. The maximum occurred in the north on the 23rd, and in the other districts on the 27th, the highest being 30·552 ins. at Mansfield at 9 p.m. on the 23rd, and 30·684 ins. at Marlborough at 9 p.m. on the 27th. The minimum took place in the north on the 17th, and in other parts of the

country on the 20th, the lowest being 28·627 ins. at Alnwick at 9 p.m. on the 17th, and 28·785 ins. at Wakefield at 9 a.m. on the 20th.

RAINFALL was about the average.

In *October* the rainfall and number of rainy days were about the average. The monthly falls varied from 8·04 ins. at Dartmoor, 7·29 ins. at Ashburton, 6·57 ins. at Seathwaite, 6·05 ins. at Bridgetown, 6·04 ins. at Buxton, 5·28 ins. at Ramsgate, and 4·74 ins. at Alston, to 1·26 in. at Marlborough, 1·42 in. at Harestock, 1·48 in. at South Bourne, 1·45 in. at Ilfracombe, 1·52 in. at Southampton, 1·55 in. at Portsmouth and 1·58 in. at Swanage. The greatest daily falls occurred over the northern half of England on the 18th, and in the other districts on the 20th, 22nd, and 23rd. Falls of 1·50 in. and above were registered:—On the 18th, 2·98 ins. at Seathwaite, 1·60 in. at Buxton and Stapleton, and 1·58 in. at Carmarthen; on the 20th, 1·98 in. at Bridgetown, 1·71 in. at Teignmouth and 1·50 in. at Babbacombe; and on the 23rd, 1·59 in. at Ashburton, and 1·53 in. at Dartmoor. Snow and hail fell on several occasions and generally on the 15th and 29th.

In *November* both the rainfall and number of rainy days were greater than in October. The monthly falls varied from 16·17 ins. at Seathwaite, 14·33 ins. at Dartmoor, 9·81 ins. at Ashburton, 7·67 ins. at Bridgetown, 7·19 ins. at Falmouth, 6·98 ins. at Cockermouth, and 6·92 ins. at Carmarthen, to 1·26 in. at Lowestoft, 1·45 in. at Somerleyton, 1·74 in. at Southend, 1·81 in. at Scarborough, and 1·96 in. at South Norwood. Falls exceeding 1 inch occurred at various places on twelve different days. At Seathwaite falls of 1 inch and above were measured on eight occasions, and at Dartmoor on six occasions. The heaviest falls took place in the south on the 26th. The greatest amounts on this day were 2·22 ins. at Ashburton and Dartmoor, 1·67 in. at Bridgetown, 1·59 in. at Tunbridge Wells, 1·47 in. at Harestock, 1·30 in. at Babbacombe, 1·27 in. at Tunbridge, 1·26 in. at Torquay, and 1·24 in. at Swanage. Snow fell generally on the 1st. Thunderstorms occurred in various parts of the country from the 22nd to the 27th.

In *December* the rainfall and number of rainy days were somewhat less than in the preceding month. The monthly falls varied from 14·58 ins. at Seathwaite, 9·22 ins. at Dartmoor, 6·06 ins. at Buxton, 5·85 ins. at Falmouth, 5·68 ins. at Carmarthen, 5·54 ins. at Bude, 5·12 ins. at Ashburton, and 4·93 ins. at Downside, to 2·15 ins. at Leaton, 2·18 ins. at Burghill, 2·23 ins. at Hodsock, 2·24 ins. at Regent's Park, 2·33 ins. at Ross, South Norwood and Strelley, and 2·40 ins. at Scarborough. The heaviest falls occurred generally on the 16th or 17th. Falls exceeding 1·25 in. were registered:—On the 9th, 1·71 in. at Ventnor; on the 16th, 1·70 in. at Churchstoke, 1·39 in. at Dartmoor, and 1·38 in. at Carmarthen; on the 17th, 2·11 ins. at Dartmoor, 1·77 in. at Cardiff, and 1·38 in. at Aspley Guise; on the 24th, 1·27 in. at Seathwaite; and on the 29th, 2·89 ins. at Seathwaite. Snow fell in various parts of the country from the 9th to the 20th.

WIND.—In *October* the prevalent direction of the wind was NE from the 1st to the 7th, W from the 8th to the 14th, variable from the 15th to the

17th, SE from the 18th to the 24th, and NE from the 25th to the end of the month. Gales occurred on several occasions, that on the 14th being exceptionally severe.—(For a full account of this gale see *Quarterly Journal of the Meteorological Society*, Vol. VIII., pp. 1 to 33.) In *November* the wind blew chiefly from the SW. Gales occurred on several occasions, that between the 26th and 28th being very heavy. In *December* the general direction of the wind was from the SW. Strong winds and gales occurred on two or three occasions, that on the 17th being very heavy.

Fog was prevalent chiefly in the south-east from *October* 1st to 10th, and 21st to 31st; generally all over the country from *November* 2nd to 9th, 14th and 18th, and *December* 9th to 16th, and 22nd to 31st.

Halos were seen on *October* 5th, 9th, 10th, 12th, 18th, 17th, 19th, 20th, and 31st; *November* 1st to 3rd, 5th, 9th, 10th, 18th, 23rd, 28th to 30th; *December* 2nd to 6th, 8th, 24th, and 28th to 31st.

Aurora was observed on *November* 5th and 23rd at Leaton, and on *December* 23rd at Babbacombe.

NOTES BY THE OBSERVERS.

Alnwick, *October*.—The hopes raised by the June days of the first week of this month were dispelled by a break up of the weather during the second. The effects of September, the storm of the 14th inst. and the severe frosts experienced during this month, have done irremediable damage, and the farmers here are at best badly prepared for the winter, if it should be a "close" one. ✳ fell for the first time this season on the 29th inst., 10 days later than last year.

November.—The weather has been remarkably fine and summer-like, and has enabled the farmers to push forward with winter ploughing and sowing, and by being so open, has in some measure made up for the loss of winter food caused by the two previous months. Primroses and other small flowers have been in bloom.

December.—The weather has permitted of agricultural work being pushed forward rapidly, and the removal of the debris and the repairs necessary through the October storm, which are far from complete. The building trades generally have benefitted by the openness of the winter, whilst "the simple flowers of spring," through the genial temperature, have burst forth in flowers.

Alston, *November*.—Violets, primroses, polyanthus, and hepaticas in flower nearly all the month. Rose trees budding.

Ashburton, *November*.—28th.—Ripe wild strawberries gathered.

Babbacombe.—*October* was cold, with ● about the average, but few wet days. The weather was fine, dry and cold, with a high barometer on the first 7 days, from the 16th to 19th, and 26th to 31st; but wet, stormy and mild from the 8th to 15th and 20th to 25th, with a low barometer on the 14th and from the 20th to 24th. 2·99 ins. ● fell in the 5 days, 20th to 24th, of which 1·50 in. fell on the 20th. The temperature was much below the average. Mean sea temperature, 55°·2.

November was very mild, wet, stormy, damp, dull and gloomy. It was the wettest month since October 1880, and was warmer, damper, more windy, dull and foggy than any of the previous 5 Novembers. A measurable amount of ● on 25 days, and slighter amounts on 3 days more. A heavy fall of 1·30 in. occurred on the 26th. The mean temperature was very high, exceeding that of October by nearly 2°. The temperature exceeded 50° on every day but the 2nd, and rose above 60° on the 3rd and 12th. ≡ was frequent to the 9th and was very dense on the 8th. Parhelia were seen on the 1st and 27th. Mean sea temperature, 53°·0.

December.—The temperature, humidity and amount of cloud were about the average; the ● was slightly below, but the wet days above the average. Parhelia were seen on the 9th, 10th and 20th. Mean sea temperature, 50°·1.

Bude, *December*.—The month has been mild, with little frost and no ✳. Ripe hedge strawberries were picked in the neighbourhood just previous to Christmas Day. The month has been characterised by heavy W and SW gales, much ● and also floods.

Cheltenham, *October*.—A month of great atmospheric disturbance; two considerable depressions and several minor ones passing over us. The 14th a day of terrible

tempest; from the 19th to 22nd being also noted for very strong wind. Some slight ✳ on the 29th and a considerable sprinkling on the 31st. late at night. Trees stripped of their leaves, elms and oaks excepted, at the end of the month.

November.—A month to be remembered for high abnormal temperature and high wind velocity, culminating in the gale of the 26th and 27th. Roses, violets, stocks, wallflowers in full bloom at close of month. A *Clematis Jackmanii* had put forth its spring shoots to the length of 4 ins.; a bad look out when the frost comes. A good display of meteors on the night of the 15th.

December.—A dull foggy month, with some few exceptionally bright days balmy and genial as April. Skating on shallow ponds, ice just strong enough for skating on the 25th. Vegetation very forward, wallflowers and violets in bloom. Clematis shoots 8 ins. long.

CHESTER, *December.*—26th.—Hive bees out.

CHURCHSTOKE, *October.*—Although there have been very stormy days, the weather on the whole has been favourable for preparing the ground for sowing, much having been got in. The yield of threshed grain has in many cases been good, but condition is indifferent and not readily saleable. Potatoes are an excellent crop. Turnips still growing and stock thriving. Apples for cider plentiful.

November.—Mean temperature for month, very high, though weather at times stormy. The fair, open weather has been advantageous for stock, and grass is still fairly plentiful. Turnips raised in good condition, also potatoes. Wheat sowing favourably completed, and coming up well. The condition of grain on threshing is most unsatisfactory, but yield generally good. Cider apples plentiful. October 17th.—Sowing beans. October 22nd to November 12th.—Sowing wheat. October 15th to November 11th.—Potatoes raised.

December.—The open weather has been favourable for farm work; winter provender is plentiful. Young wheat continues to look well. Condition and quality of grain is very deficient, and demand small and prices low.

CROYDON, *October.*—This October was the coldest one for at least 40 years, most windy for 11 years and the least cloudy for 9 years. All my dahlias were killed by the sharp frost of the 17th, or 4 days earlier than in the previous year and a month earlier than in 1879. On the 8th I gathered as many as eight fine rose-blooms, but after the frosts of the 17th and 19th the flowers were much smaller and only occasionally to be had. The fall of the leaf set in much earlier than in recent autumns. Indeed, by the close of the month many deciduous trees had lost a considerable portion of their foliage. The winds of greatest frequency were from NE and ENE.

November, in complete contrast to the preceding month, was exceedingly and continuously mild. Early in the month a great change was perceptible in many deciduous trees, particularly in the elms, which shed their leaves so quickly that in a day or two they were quite bare. The winds of by far the greatest frequency were from SW, SSW, and WSW. In fact after the 9th the wind blew almost exclusively from one or other of these points. Considerably more than twice as much ● fell during the daytime as at night.

December.—For all fruit trees, shrubs, &c., which had been moved in October, the weather could scarcely have been more favourable. Early in the month there were a few small rose blooms in my garden, but on the 17th the last rose of the year was gathered, which is a month later than in the 2 previous years, and about a week later than in 1878. The great prevalence of SW winds was again a remarkable feature of the month.

HILLINGTON, *October.*—The temperature lower and weather less agreeable than is usual in October. ● 0·11 in. in excess of mean of 15 years, 1866-80. To be remembered chiefly for the gale on the 14th, which made terrible havoc among the trees, especially oaks; no buildings, however, received damage here.

November.—The month set in cold and gloomy, followed by a beautiful Martinmas summer. Observable for mild weather, absence of frost and cold as well as of fog; also for high winds. ● 0·31 in. less than mean of 15 years, 1866-80. ● every day from 16th-26th inclusive.

December.—Weather unusually open and mild. Favourable to farmers as sparing their winter stock of feed. No ✳. Colder 6th-14th and 22nd-25th. ● 0·15 in. in excess of mean of 15 years, 1866-80.

KILLARNEY, *October.*—25th.—Ash and sycamore denuded as well as lime; chestnut, beech, and large elms yellow and falling; oak, small elms beginning to turn.

November.—The second half of the month was unusually tempestuous. The atmosphere very dry after the gale of 20th.

December.—Frequent visits of sea birds from coasts, say 26 miles away. Singularly mild Christmas. Mean temperature of last week of year 47°·8.

MANSFIELD.—*November* has been very mild, with many bright spring-like days. The mean temperature is at least 5° above the average of last 10 years. High winds occurred more or less between the 15th and 27th, being exceedingly high on the 16th, 26th and 27th. Such continuous winds have not been known for many years.

PORTSMOUTH, *November.*—26th.—Saw a swallow flying over the street at Ryde, Isle of Wight.

ROSS, *December.*—18th.—High flood in river Wye, 12 ft.

SCARBOROUGH, *October.*—A wet and cold month, more especially the latter half, some ▲ and ✳ showers prevailing towards the end of it. Mean air temperature 2°·3 lower than usual, and the ● 0·87 in. in excess of the usual quantity. A violent wind and ● storm occurred on the 14th, attaining force 11 between 3 and 5 p.m., when trees, chimney stacks, and persons were blown down; window panes smashed and quantities of lead weighing from 3 to 4 cwt. blown off house roofs to a distance of 40 or 50 yards. Mean sea temperature 50°·6.

November.—An exceptionally mild month. Mean temperature 4°·8 above the average of the previous 13 years, and higher than in any corresponding month during the before-mentioned period. With the exception of a slight shower or two on the 1st, we have had an entire absence of ✳, and the ● has only been a little over half the usual quantity. Southerly to westerly winds prevailed during the whole month. Some rather heavy wind squalls and a little ⊤ and ≮ towards the latter part. Mean sea temperature 47°·5.

December.—Another mild month, the mean temperature being nearly 1° above the average, whilst that of the last week has been 4° warmer than the average of the corresponding week during the previous 13 years. The ● has been less than usual. ✳ only fell on 1 day, and then only for about 20 minutes. The wind has generally been SW with ≡ at times. Mean sea temperature 44°·1.

SEATHWAITE, *December.*—3rd.—Blossom on gooseberry trees.

SOUTH BOURNE, *November.*—Nights 5½°, days ½° warmer than in October, whilst the mean registrations of shade temperature at 9 a.m. and 9 p.m. were 8° higher in November than October! Minimum only five times below 40°. Mean temperature no less than 7°·2 above the average of 14 preceding years during which I have registered in the Bournemouth district, and 4°·7 above the next warmest November, 1876, when the mean was 45°·7. Violets and many other spring flowers in bloom all through month.

December.—A wet and boisterous month, 7°·5 colder than November, but 0°·5 above the average mean temperature. White broom, pansies, rhododendrons, &c., in bloom at end of month in my garden.

ST. MICHAEL'S-ON-WYRE, *October.*—The harvest now done. Most of the corn was stacked during the fine weather at the beginning of the month. One field of beans was only finished about the 22nd. The potato crop was nearly all got up by the end of the month. In places there were many diseased tubers owing to the floods.

STRELLEY, *October.*—11th.—Finished harvest.

SWANAGE, *November.*—15th.—Saw four swallows, which proved to be the last of the season.—17th. Gathered some wild primroses and sweet violets.

TEMPERATURE OF THE SOIL AT 9 A.M.

Station.	Depth below the Surface.	October.			November.			December.			Year.		
		Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.
		°	°	°	°	°	°	°	°	°	°	°	°
Alnwick	1 ft.	48·5	56·5	40·0	45·2	51·5	39·0	39·0	44·0	35·5	48·9	66·0	35·0
,, ...	2 ,,	52·3	57·5	47·5	48·5	51·5	46·0	43·8	47·0	41·5	50·4	64·0	39·0
Aspley Guise..	3 ins.	45·6	55·3	36·6	45·3	51·1	36·0	37·3	43·0	32·8	48·5	75·9	24·7
,, ..	6 ,,	45·8	55·3	37·4	45·5	50·5	37·1	37·7	43·2	33·1	48·0	73·2	24·5
,, ..	1 ft.	46·8	53·2	39·7	45·8	50·2	38·3	38·4	43·7	33·9	48·4	73·2	27·0
,, ..	2 ,,	49·7	55·4	44·7	47·2	49·9	42·7	40·9	44·8	37·2	49·4	69·2	33·2
,, ..	4 ,,	52·1	56·0	48·7	48·5	49·7	47·0	44·2	47·4	41·4	49·2	61·6	37·5
Babbacombe ..	6 ins.	51·1	57·7	42·4	49·7	52·8	44·2	42·3	47·8	37·9	—	—	—
,, ..	1 ft.	52·7	58·8	45·9	50·4	52·9	45·9	43·5	48·0	39·7	51·9	68·7	34·8
Beacon Stoop	1 ,,	44·3	51·3	39·0	43·6	47·9	36·0	36·6	42·9	33·9	—	57·6	—
,, ..	2 ,,	45·2	51·4	40·6	44·1	47·6	39·9	38·4	42·1	35·5	—	57·0	—
Cardiff	1 ,,	50·1	54·4	45·6	48·7	51·8	43·8	43·0	49·5	38·6	—	—	—
,, ...	4 ,,	53·2	55·7	51·2	50·5	51·0	50·0	48·1	50·1	46·0	—	—	—
Croydon.....	6 ins.	45·7	52·4	37·0	46·9	51·0	37·0	39·1	44·7	33·4	48·8	71·0	31·4
,, ...	1 ft.	47·5	53·6	40·5	47·3	51·0	39·7	40·1	45·0	35·0	49·4	71·0	33·0
Cullompton ..	1 ,,	48·9	54·1	42·2	48·1	51·4	42·0	41·2	46·2	36·8	49·8	69·7	33·0
Isleworth	1 ,,	48·2	53·5	41·0	46·8	50·4	39·2	39·7	48·1	35·0	49·3	71·0	31·2
,, ...	2 ,,	50·9	56·0	46·1	48·3	50·4	44·4	42·4	46·0	39·0	50·1	67·8	34·9
Lowestoft	1 ,,	48·0	53·7	41·6	46·5	49·5	41·5	40·0	44·5	35·6	48·6	68·1	32·9
Marlborough	6 ins.	45·4	52·1	36·1	45·9	50·4	37·0	38·3	44·4	33·4	—	71·0	—
,, ...	1 ft.	47·5	54·2	40·4	46·6	50·2	39·6	39·7	44·4	35·2	—	69·0	—
,, ...	1½ ,,	49·4	55·8	44·1	47·2	49·9	42·9	41·1	45·0	37·5	—	68·9	—
,, ...	2 ,,	51·1	56·5	46·8	48·1	49·9	45·2	42·9	46·2	39·8	—	64·1	—
Norwood	1 ,,	47·5	53·8	40·3	46·4	49·9	39·1	39·7	44·2	35·1	49·1	69·5	33·1
Oakamoor	1 ,,	48·7	53·4	42·4	45·0	48·1	41·1	38·0	43·7	35·4	47·3	66·5	27·0
,, ...	2 ,,	49·5	53·6	43·5	45·9	47·8	43·0	39·6	44·0	37·2	47·9	65·0	28·7
Regent's Park	1 ,,	47·3	51·5	39·0	46·8	50·3	39·4	40·5	44·8	35·4	—	71·2	—
,, ...	4 ,,	52·1	56·5	47·8	48·2	49·0	47·0	44·7	47·8	42·5	—	62·7	—
St. Leonard's	1 ,,	50·1	56·5	43·2	48·8	51·5	42·8	42·2	46·6	37·0	50·3	70·1	32·9
Southampton	1 ,,	49·4	55·2	42·7	48·5	51·5	42·2	41·8	46·1	36·9	50·3	68·5	34·3
Strelley	1 ,,	44·9	—	—	44·8	49·2	38·9	38·0	43·4	34·7	—	—	—

DURATION OF BRIGHT SUNSHINE.

Station.	Total amount.				Greatest amount on one day.				No. of days on which no Sunshine was registered.			
	Oct.	Nov.	Dec.	Year.	Oct.	Nov.	Dec.	Year.	Oct.	Nov.	Dec.	Year.
	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.				
Aspley Guise..	122·9	73·8	54·3	1519·6	10·0	6·3	6·8	14·5	7	7	15	80
Buxton	91·3	42·1	39·5	—	9·0	7·8	6·0	14·8	11	13	16	—
Churchstoke ..	99·7	62·5	48·5	1388·9	9·2	7·2	5·2	14·0	6	8	14	81
Croydon	108·5	69·7	44·1	1463·2	10·0	6·0	6·1	14·3	7	9	15	85
Cullompton ..	116·0	51·8	47·3	—	9·0	6·5	5·6	—	2	10	14	—
Hillington ..	95·4	46·0	37·4	1440·2	8·5	4·6	4·3	14·8	6	9	17	80
Hodsock	107·0	61·5	45·0	1323·3	8·5	7·5	5·5	14·5	7	7	13	85
Llandudno ..	113·5	52·9	—	—	10·0	7·6	—	15·2	6	10	—	—
Marlborough ..	132·8	61·7	50·7	—	9·9	6·6	6·3	—	5	10	11	—
South Bourne	136·8	73·6	61·3	1701·8	8·8	7·5	6·3	15·0	3	10	11	76
Strelley	114·5	63·2	47·6	—	9·3	6·5	5·1	14·3	7	10	11	—

Abstract of Meteorological Observations for the Month of OCTOBER, 1881.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather, No. of days of						Wind, No. of Observations of							
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.															
Alnwick	30·040	44·8	42·7	43·8	39·0	50·9	23·6	31	61·4	1	42·3	41·2	81	88	6·8	5·7	3·08	·86	13	19	1	4	15	2	5	4	10	14	3	4	6	8	8
Scaleby.....	·030	44·6	41·9	43·2	36·8	50·5	20·0	31	66·3	1	42·4	40·3	83	87	6·0	4·3	2·54	1·40	13	16	0	8	8	5	3	8	20	6	1	11	3	2	8
Scarborough	·028	47·5	45·8	46·7	42·6	50·3	33·5	31	60·8	11	44·5	43·4	79	82	6·4	5·8	3·98	·59	13	21	2	2	10	5	4	7	18	9	2	8	9	5	0
Wakefield	·041	45·3	43·3	44·3	39·5	51·4	25·2	17	61·0	3	42·8	41·5	81	86	7·2	5·6	3·26	·95	13	18	1	2	7	2	14	8	14	6	1	5	11	3	0
Mansfield	·040	44·8	41·9	43·4	39·4	49·8	28·6	17	59·5	2	42·9	40·9	86	92	6·7	6·0	3·10	·64	13	20	2	5	13	1	8	6	22	1	4	6	8	4	3
Buxton	·068	42·8	40·1	41·5	36·1	47·7	26·0	16, 17	55·2	11, 14	40·9	38·8	85	89	7·4	6·1	6·04	1·60	13	17	4	1	9	2	1	8	9	22	0	1	4	17	0
Cheadle	·031	43·1	42·0	42·5	38·7	49·6	28·7	16	58·9	2, 3	41·1	40·3	85	87	6·6	5·7	3·50	1·00	13	12	2	5	12	6	11	9	18	7	0	4	6	7	0
Llandudno ..	·018	48·0	46·4	47·2	42·4	52·3	30·6	30	60·0	1	44·9	43·5	78	79	7·2	5·2	2·42	1·00	13	13	0	7	15	7	4	2	15	19	4	5	13	0	0
Leaton	·060	44·2	42·1	43·1	37·0	51·0	24·2	31	60·6	11	42·4	40·6	86	88	6·6	6·2	2·35	·68	13	14	2	4	13	1	7	6	15	4	4	0	16	3	7
Churchstoke..	·045	43·8	42·3	43·0	37·6	50·2	23·5	31	59·5	11	42·1	40·7	87	87	7·1	6·1	3·12	1·01	22	13	3	2	12	3	6	11	8	11	0	4	4	9	9
Cheltenham	·022	45·0	42·9	43·9	36·8	51·6	21·5	31	60·6	1, 11	43·0	41·2	85	87	6·9	4·8	2·05	·75	13	16	2	6	12	1	8	7	5	14	2	5	11	4	6
Carmarthen ..	·007	47·4	45·0	46·2	39·8	53·9	26·5	31	63·7	1	44·6	43·0	80	85	5·5	4·7	3·44	1·58	13	15	0	9	10	1	8	3	19	9	0	2	8	1	12
Dartmoor	·019	43·3	42·8	43·0	37·8	48·4	25·0	31	54·0	11	41·7	41·4	88	89	6·5	5·5	8·04	1·53	23	14	0	6	12	2	0	6	25	12	1	5	4	6	3
Babbacombe..	·008	49·3	47·8	48·5	43·5	53·9	30·2	31	65·3	11	46·1	45·2	78	81	6·0	5·8	4·18	1·50	20	13	0	3	8	8	7	13	12	7	3	5	10	4	1
Downside	·031	44·0	43·5	43·7	38·9	51·4	25·4	31	59·6	3, 4	42·6	42·1	89	89	6·5	5·5	2·58	·83	22	15	1	7	13	5	5	26	6	3	1	8	4	8	1
Marlborough	·034	44·6	42·2	43·4	37·3	51·4	21·3	31	60·3	1	42·5	40·8	84	88	6·0	5·4	1·26	·42	22	12	0	9	11	1	3	2	19	3	1	4	7	0	23
Strathfield T.	·030	46·9	42·9	44·9	36·9	53·2	22·0	31	63·1	11	44·3	41·4	81	88	5·4	4·8	1·70	·78	22	9	0	11	10	1	8	15	11	5	4	3	9	7	0
Norwood	·022	45·2	43·6	44·4	38·8	51·9	25·6	31	61·9	11	43·0	41·9	83	87	6·0	4·3	2·58	1·24	22	16	1	8	10	1	10	6	17	3	0	5	9	5	7
Croydon	·021	45·4	42·8	44·1	38·4	52·1	26·1	17	62·2	11	43·0	41·1	82	87	6·3	4·2	2·44	1·12	22	17	0	8	9	1	7	14	9	5	1	5	11	2	8
South Bourne	·012	47·2	45·7	46·4	40·8	53·8	26·0	31	61·9	11	44·5	43·4	81	83	4·8	4·7	1·43	·49	22	10	0	10	7	1	13	14	9	8	0	0	10	7	1
Ramsgate	·008	47·8	47·1	47·4	44·1	52·1	33·5	31	61·7	11	45·7	45·1	84	85	6·5	6·7	5·28	·90	8	21	1	5	13	1	6	9	16	0	0	19	3	4	5
Hillington ..	30·017	46·6	42·7	44·6	38·6	51·7	25·1	17	61·5	1	44·2	41·6	83	91	6·5	5·4	2·44	·71	13	18	0	2	7	1	3	18	11	12	0	5	9	4	0
Lowestoft	29·996	47·8	46·2	47·0	42·4	51·9	32·3	17	59·7	11	44·6	43·3	77	79	7·0	6·8	3·26	·79	13	20	1	2	12	3	3	6	17	12	0	2	10	11	1
Killarney	29·953	50·3	48·6	49·5	44·3	55·7	24·3	30	63·7	2	47·6	46·6	81	85	7·6	6·8	6·58	2·27	31	17	0	2	14	10	3	4	11	16	7	11	1	5	4
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Alnwick	≡	..	..	●	..	..	●	≡	●	●	●	●	●	●▲	..	≡	..	..	●	●	●	●	●	●	●≡	●	●≡	●▲	●✱▲	..	ψ
Scaleby	..	..	..	●	..	..	●	●	●	●	●	●	●	●	..	..	..	..	●	●	●	●	..	●	..	●	..	●	..	..	..
Scarborough	..	..	..	●	●	..	●≡	..	..	●	●	●	●	●	●	..	..	..	●	●	●	●	●	●	●	●	●	●▲	●✱▲	●✱	ψ
Wakefield ..	..	..	..	●	●	..	●	..	●	●	●	●	●	●	..	..	..	..	..	..	●	●	●	●	●	●	●	●	●✱	..	..
Mansfield ..	≡	..	●	●	●	●	●	..	●	●	●	●	●	●	✱	..	..	..	..	●	●	●	●	●	●	●	..	●	●✱▲	..	..
Buxton	..	●	..	..	●	..	●	..	●	●	●	●▲	●▲	●▲	✱	..	..	..	..	●	●	●	●	●	●	●	..	●✱	✱	..	●✱ψ
Cheadle	..	..	..	..	..	..	●	..	●≡	..	..	●K	●	●	●✱▲	..	..	..	..	●	●	●	●	..	..	..	..	..	✱	..	●ψ
Llandudno ..	..	..	≡	≡	..	..	●	●≡	●▲	●	●	●	●▲	●▲	●▲	..	..	..	..	..	●	●	..	..	..	..	..	●	..	..	●
Leaton ...	≡	..	.	..	..	..	●	●	●	●	●	●	●	●	●✱	..	..	..	..	●	●	●	●	..	..	..	..	..	✱	..	●
Churchstoke	..	..	..	..	..	..	●	●	●	●	●	●	●	●	●✱	..	..	..	..	●	✱	●	..	..	..	..	..	●	✱▲	..	●
Cheltenham	..	..	..	..	●	●≡	●	●	●	..	●	●	●	●	▲	..	..	..	..	●	..	●	●	..	●	●	..	..	●✱▲	≡	●✱≡ψ
Carmarthen	≡	..	..	..	..	..	●	●	●	●	..	●	●	●	●	..	..	..	..	●	●	●	●	●	..	..	..	●	..	..	●
Dartmoor ..	≡	..	..	..	..	..	●	..	●	●≡	●	●	●≡	●≡	..	..	..	..	..	●	●≡	●	●	●	..	..	..	●	..	..	●
Babbacombe	..	..	..	..	..	..	●	●≡	●	●	..	●○	●	●	..	.	..	..	○	●	●	●	●	●	..	..	..	..	..	..	●○
Downside ..	●≡	≡	≡	..	≡	..	●	●≡	●≡	●	●	●	●	●	●	..	..	..	..	●	●	●	●≡	●≡	..	..	..	≡	✱▲	..	○
Marlborough	≡	..	≡	..	..	●	●	●≡	..	●	●	..	●	●	▲	..	..	..	..	●	●≡	●	●≡	≡	..	..	..	≡	..	..	●≡
Strathfield T.	≡	..	..	..	≡	..	●	●	..	●○	..	..	●	●	..	..	..	..	..	●	●≡	●	●≡	≡	..	..	..	..	..	..	..
Norwood	≡	..	●≡	●	≡	●≡	●≡	●≡	●ψ	●○ψ	●	..	●○	●	●▲	≡	≡○	≡	..	●○	≡	●	●≡	●≡	..	●≡	..	≡	✱	≡	≡ψ
Croydon	≡	..	●≡	●	●▲≡	●≡	●≡	●≡	●≡	●≡	●	..	●	..	●▲	..	≡	..	..	●	..	●	●	..	●	●	..	≡	●▲	≡	≡ψ
South Bourne	..	..	..	..	..	..	●	●	..	●	..	●	●	..	..	..	..	..	..	●	●	●	..	●	..	..	..	..	..	...	●ψ
Ramsgate ..	..	..	..	●	●	●	●	●≡	..	●	●	●	●	●	●▲	..	..	..	..	●	●≡	●	●	≡	●	●	●	..	●✱▲	●▲	●
Hillington ..	..	..	..	●	●ψ	●	●	●	●	..	..	●	●	..	..	..	..	..	..	●	●	●	●	●	●	●	●	●	●▲	..	..
Lowestoft ..	..	..	..	●	●	●	●	●	..	●	..	●	●	..	●	●	..	..	●	..	..	●	●	●	●	●	●	●	●▲	●✱▲	..
Killarney ..	≡	..	≡	..	●	..	●	●▲≡	●	●	●	●	●	●▲	..	..	..	●	●	●	●	●	●	●	..	..	≡	≡	..	..	●

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✱ snow; ▲ hail; ≡ fog; K thunderstorm; T thunder; ∠ lightning; ○ solar halo; ψ lunar halo; W aurora.

Abstract of Meteorological Observations for the Month of NOVEMBER, 1881.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather, No. of days of						Wind, No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.															
Alnwick	29·718	43·7	44·7	44·2	39·3	51·0	28·4	18	61·6	14	42·2	43·3	88	89	6·0	4·4	3·43	·78	30	19	1	7	9	0	0	0	0	8	22	18	8	0	4
Scaleby	·710	46·7	47·0	46·9	40·2	52·0	27·5	18	60·0	8	44·6	44·9	85	85	7·8	6·4	4·39	·70	11	20	0	0	12	11	0	5	0	6	4	40	1	0	4
Scarborough..	·808	46·3	46·9	46·6	42·7	51·5	33·5	1	61·1	14	44·6	45·3	87	88	6·5	5·7	1·81	·50	26	18	1	3	9	3	0	0	0	6	11	30	13	0	0
Wakefield	·820	47·0	48·0	47·5	42·0	53·9	30·2	18	62·6	14	44·8	45·7	84	83	7·1	6·4	2·73	·50	26	19	1	2	14	2	0	0	0	4	10	13	17	15	1	0
Mansfield	·863	46·0	45·3	45·6	41·1	51·8	31·0	18	61·1	13	45·1	44·5	93	94	6·6	6·1	2·81	·35	3, 16	20	1	6	13	3	0	0	0	6	15	33	5	0	1
Buxton	·870	44·8	44·5	44·6	38·8	50·3	28·5	1	58·1	13	43·7	43·3	91	90	7·7	6·1	6·60	·94	16	22	2	1	10	0	0	0	0	6	0	34	7	12	1
Cheadle	·868	44·8	44·9	44·9	40·4	51·1	29·8	1	60·7	13	44·0	43·9	94	92	7·3	6·6	3·54	·54	16	20	2	2	13	6	0	0	7	8	15	16	10	2	2
Llandudno ..	·763	50·5	50·4	50·5	46·0	55·6	35·3	1	62·8	8	47·7	47·3	81	79	6·9	6·1	3·06	·63	30	16	0	2	13	5	1	0	0	2	9	14	34	0	0
Leaton	....	46·8	46·4	46·6	40·3	52·9	29·0	18	61·8	4	45·4	44·9	89	88	6·1	..	2·51	·34	30	20	1	..	..	..	0	0	0	8	16	10	23	1	2
Churchstoke..	·857	47·6	46·9	47·3	41·4	52·9	31·5	18	61·7	13	45·7	45·2	86	87	6·6	6·7	3·66	·63	30	20	2	2	11	5	0	0	2	12	5	29	10	2	0
Cheltenham ..	·898	48·5	48·5	48·5	42·1	54·0	28·8	18	61·3	4	46·8	46·9	87	88	6·7	5·2	3·25	·66	26	23	1	2	8	2	0	0	0	6	28	20	3	0	3
Carmarthen ..	·853	49·5	48·8	49·2	44·2	54·2	33·9	29	63·7	8	48·0	47·7	89	92	7·7	5·8	6·92	·89	30	27	0	3	12	3	1	0	7	3	12	14	18	0	5
Dartmoor	·941	46·9	45·9	46·4	41·2	50·4	28·5	26	55·0	4, 8	46·3	45·3	95	95	9·2	8·2	14·33	2·22	26	27	1	0	20	1	1	1	6	2	13	20	8	5	4
Babbacombe..	·934	50·6	49·6	50·1	45·4	55·5	37·8	29	62·3	12	49·1	48·5	89	92	7·3	7·1	5·83	1·30	26	25	0	1	13	9	0	1	5	2	13	24	11	2	2
Downside	·927	47·1	47·3	47·2	42·6	53·0	34·4	3	58·5	13	46·3	46·5	94	94	7·3	6·0	6·56	1·23	24	24	0	2	13	5	1	5	2	2	10	37	1	0	2
Marlborough	·949	46·9	46·9	46·9	42·0	52·9	31·1	18	60·1	13	45·7	45·9	91	92	7·8	7·3	3·82	·74	24	19	1	3	18	0	0	0	1	7	13	12	8	0	19
Strathfield T.	·963	48·0	47·6	47·8	41·5	54·5	31·2	30	63·7	5	47·0	46·3	87	90	7·3	6·3	3·27	·72	26	19	1	2	15	0	0	0	1	8	9	25	6	6	5
Norwood	·977	48·6	48·1	48·4	42·8	54·1	31·7	1	62·5	5	47·0	46·7	88	90	7·4	6·8	2·65	·80	26	18	1	3	16	4	0	0	5	1	10	17	19	0	8
Croydon	·976	49·0	48·2	48·6	43·2	54·4	30·0	2	62·2	5	47·1	46·4	86	87	7·7	5·1	3·69	1·12	26	18	1	3	11	4	0	0	3	6	11	28	9	0	3
South Bourne	29·965	50·2	50·3	50·3	46·1	54·5	34·9	18	60·9	12	48·5	48·9	88	90	6·6	6·0	4·74	·97	26	17	0	5	12	6	1	1	5	5	7	25	11	1	4
Ramsgate	30·005	48·3	48·2	48·3	43·7	52·7	31·5	1	60·2	12	46·9	46·8	90	90	7·9	5·4	2·01	·51	26	15	1	2	13	6	0	0	4	4	7	27	0	0	18
Hillington....	29·915	46·4	45·7	46·1	41·0	52·5	30·5	1	59·9	4	45·2	44·8	91	93	7·2	6·4	2·41	·49	24	13	1	3	14	3	0	0	0	7	13	36	4	0	0
Lowestoft	·946	47·5	47·4	47·5	43·0	52·7	36·0	1	60·0	4	46·1	46·0	89	89	6·5	5·6	1·26	·30	3	11	0	5	12	2	0	0	1	6	8	21	21	3	0
Killarney	29·688	50·9	51·0	50·9	45·8	56·0	31·7	29	62·2	13	48·7	48·8	85	85	6·6	7·6	9·81	1·43	29	29	0	1	10	9	0	1	3	3	7	23	23	0	0
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Alnwick	●✱	..	●	●≡	●≡	..	≡	≡ψ	≡	..	●	..	●	..	●	●	●▲	●≡	..	●	●	●▲	●	●	..	●	●	●	..	●
Scaleby	●	..	●	●	..	..	..	..	..	..	●	●	●	..	●↙	●	..	●	●	●	●	●	●▲K	●	●	●↙	●	●	..	●
Scarborough	●✱	..	●≡	●≡	●≡	..	≡	≡	≡	..	●	..	●	..	●	●	●	●≡	..	●	●	●K	●	●	●	●	●	..	..	≡
Wakefield ..	●✱	●	●	●	●	ψ	≡ψ	≡	..	..	●	..	..	..	●	●	●	●	..	●	●	●	●▲	●	●	●K	●	..	..	●
Mansfield ..	●✱	●	●≡	●≡	●	..	●	≡	≡ψ	ψ	●	..	..	≡	..	●	●	●≡	●	●	●	●	●	●	●K	●	●	..	..	●
Buxton	●✱	●	●✱≡	●	●	..	●	●	..	●	●	..	..	..	..	●	●▲	●	..	●	●T	●	●	●	●	●	●K	●	..	●
Cheadle ...	●✱	●✱≡	●≡	●≡	●	..	●≡	≡	≡ψ	..	●	..	..	≡	●≡	●	●	●	..	●	●	●	●↙	●	●	●▲↙	●	..	≡	●
Llandudno ..	▲	●	●ψ	●	..	..	..	..	..	..	●	..	..	..	..	●	●	●	..	●	●	●K	●▲	●	●	●	●▲	..	..	●
Leaton	✱	●	●≡	●≡	●Ψ	●	●≡	≡	≡	..	●	..	..	..	..	●	●	●	●	●	●	●↙	●▲↙Ψ	●	..	●	●	..	●	●
Churchstoke	✱	●	●≡	●	●✱	..	●≡	≡	..	..	●	..	..	..	●	●	●T	●	●	●	●	●▲↙	●▲	●	●	●	●	..	..	●
Cheltenham	●✱	●	●	●	●	●	●	●	..	..	●	..	..	..	..	●	..	●	●	●	●	●↙	●	●	●	●	●	●	●	●
Carmarthen	●	●	●	●	●	●	●	..	●ψ	●	●	●	●	●	●	●	..	●	●	●	●	●	●▲K	●	●▲	●	●K	..	●≡ψ	●
Dartmoor ..	●✱	●≡	●≡	●	●≡	●	≡	●≡	≡	●≡	●≡	●≡	●	..	●≡	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Babbacombe	●≡○	●≡	●≡○	●≡	●	●	●≡	≡	●≡ψ	●	●	..	≡	≡	..	●	●	●	●	●	●	●↙	●	●	●↙	●	●▲K	●▲Ψ	●	●○
Downside ..	..	●	●≡	●	●	●≡	≡	●≡	●≡	●	●	..	..	..	●	●	●	●	●	●	●	●▲	●	●	●	●	●	●	..	●
Marlborough	●✱	●	●≡	●≡	●	●≡	●	≡	≡	..	●	..	..	≡	..	●	..	●≡	●	●	●	●	●	●	●	●	↙	..	..	●
Strathfield T.	●✱	●≡	●≡	●≡	●	●≡	≡	≡	≡○ψ	..	●	..	..	..	..	●	..	●≡○	●	●	●	●↙	..	●	●	●▲	●↙	..	●≡	●
Norwood ..	●✱≡	●≡○	●≡	●	●○	●≡	●≡	≡	≡○ψ	..	●	..	..	..	..	●	..	●≡	..	●	●	●	○↙	●	●	●	●	..	..	●
Croydon	●✱ψ	●	●≡	≡	●	●≡	≡	≡	≡	ψ	●	..	..	≡	..	●	..	●≡	●	●	●	●	..	●	●	●	●▲↙	..	●≡	●
South Bourne	..	..	●	●≡	●	●≡	..	≡	●	..	●	..	●	..	..	●	..	..	●	●	●	..	..	●	●	●	●▲↙	●	..	●ψ
Ramsgate ..	✱	●	●≡	●≡ψ	●	●≡	●≡	≡	..	ψ	..	..	..	≡	..	..	..	..	●	●	●	●	●	..	●	●	●▲	●	..	..
Hillington ..	●✱	..	●	●	..	..	..	≡	..	..	●	..	..	≡	..	●	..	●	..	●	●	●	●	●	●	●	..	..	..	..
Lowestoft ..	..	●	●	●≡	..	..	≡	..	..	..	≡	●	..	≡	≡	●	..	●	●	..	●	..	..	●	●	●	..	..	..	..
Killarney ..	●	●	●ψ	●	●	●	●	ψ	●	●	●	●	●	●	●	●↙	●	●	●↙	●	●	●▲K	●▲Ψ	●↙	●▲	●↙	●▲	●	●	●▲≡

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✱ snow; ▲ hail; ≡ fog; K thunderstorm; T thunder; ↙ lightning; ○ solar halo; ψ lunar halo; Ψ aurora.

Abstract of Meteorological Observations for the Month of DECEMBER, 1881.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather, No. of days of					Wind, No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.														
Alnwick.....	29·835	37·9	38·5	38·2	34·0	42·9	24·6	24	51·6	27	36·6	37·1	89	88	5·7	4·5	2·61	·51	10	18	4	6	9	0	3	1	1	5	14	13	10	7	8
Scaleby.....	·848	38·1	38·0	38·0	33·1	42·1	21·0	23	51·2	2	37·1	37·0	91	91	7·7	5·3	2·94	·45	3	18	2	4	13	4	5	3	4	3	4	26	3	1	13
Scarborough..	·883	39·0	40·0	39·5	35·9	43·4	29·0	10	49·4	2, 3	37·9	38·9	91	91	5·9	5·1	2·40	·62	20	17	1	6	9	1	1	3	1	3	6	27	16	5	0
Wakefield.....	·914	38·1	38·9	38·5	33·6	44·2	22·7	24	54·0	2	36·6	37·5	87	88	7·7	6·3	2·74	·60	19	20	1	1	13	1	2	0	4	10	8	12	20	6	0
Mansfield	·941	36·1	36·9	36·5	32·6	42·0	21·0	24	50·9	2	35·5	36·1	94	93	6·6	5·4	2·58	·52	17	18	5	5	12	0	3	0	0	1	15	24	8	4	7
Buxton	·966	35·6	35·7	35·7	30·9	41·1	17·4	24	51·2	27	35·0	34·8	94	91	7·5	6·2	6·06	1·02	16	16	9	0	11	0	0	5	0	4	0	23	5	25	0
Cheadle.....	·952	35·9	36·6	36·2	31·8	41·7	22·5	24	50·3	2	35·3	35·8	94	92	6·9	5·6	2·96	·75	17	17	5	5	15	2	3	3	1	8	13	10	13	7	4
Llandudno ..	·908	42·8	42·9	42·8	38·2	47·3	30·2	23	56·5	6	40·7	41·1	84	86	6·5	5·4	2·55	·75	3	18	1	4	10	0	3	3	1	0	1	8	42	4	0
Leaton	·957	36·8	36·8	36·8	30·6	42·8	18·5	11	53·5	2	35·7	35·8	90	91	6·5	4·2	2·15	·60	16	13	1	7	10	..	1	3	2	4	19	7	24	2	0
Churchstoke..	·966	37·3	38·0	37·6	32·6	44·0	22·1	23	53·3	27	36·1	36·6	89	88	6·8	5·7	3·69	1·70	16	16	3	5	12	2	2	6	1	6	2	14	19	9	3
Cheltenham...	·978	39·1	39·1	39·1	32·6	44·3	19·0	24	54·0	2	37·6	37·8	87	89	7·1	6·6	2·90	·97	17	16	0	3	10	1	4	0	1	2	15	13	8	4	15
Carmarthen ..	29·965	39·7	39·9	39·8	34·9	46·2	20·3	11	53·0	2	38·9	39·1	93	93	6·1	5·8	5·63	1·38	16	22	0	6	13	0	2	0	2	1	7	12	11	1	26
Dartmoor	30·033	38·5	37·8	38·2	33·3	42·6	24·0	11	49·2	6	37·8	36·7	94	90	8·2	6·5	9·22	2·11	17	19	2	3	17	0	1	7	5	0	2	23	7	7	10
Babbacombe..	30·017	42·3	41·6	42·0	37·6	48·4	29·0	11	54·2	28	40·7	40·3	87	89	7·0	6·2	3·49	·65	17	20	2	4	15	4	6	1	1	4	12	18	14	6	0
Downside	29·996	38·5	39·1	38·8	34·7	44·4	25·6	23	51·9	6	37·8	38·1	93	92	7·5	6·2	4·93	1·18	17	16	1	4	14	2	3	5	2	3	6	34	3	3	3
Marlborough	30·015	37·4	38·5	38·0	33·5	43·6	22·3	23	51·8	5	36·6	37·8	93	94	7·5	6·0	3·52	·84	17	18	2	4	14	0	2	1	0	4	11	3	6	3	32
Strathfield T.	·015	38·3	38·8	38·6	32·9	44·6	19·9	24	54·4	2	37·1	37·8	90	92	6·8	6·0	2·85	·61	17	13	3	5	14	0	2	4	1	11	14	10	8	10	2
Norwood	·016	39·1	39·4	39·2	35·0	44·0	22·7	24	53·7	2, 18	38·0	38·4	91	92	7·4	5·9	2·64	·65	17	17	2	4	14	4	1	1	2	5	15	12	18	1	7
Croydon	·019	39·4	39·3	39·3	35·6	44·3	22·7	24	54·2	18	38·1	38·1	89	90	7·3	5·4	2·85	·56	6	17	3	4	11	3	0	2	0	5	16	19	12	1	7
South Bourne	·016	42·4	42·9	42·6	38·6	47·0	28·8	23	53·8	2	40·5	41·1	85	86	6·4	5·4	2·98	·51	15	14	2	3	10	2	7	3	0	2	8	16	14	9	3
Ramsgate	30·040	40·9	40·5	40·7	36·6	45·2	30·5	25	53·0	2	39·5	39·1	88	88	7·3	5·4	3·10	·56	17	18	1	3	10	3	0	2	2	2	15	15	0	1	25
Hillington.....	29·958	37·1	37·1	37·1	33·0	41·9	19·6	24	50·7	2	36·4	36·3	94	93	8·0	6·2	2·77	·72	17	14	0	4	16	1	1	1	2	4	12	30	3	9	0
Lowestoft	·973	39·0	39·0	39·0	35·1	43·6	27·0	24	51·0	2	38·1	37·9	92	91	7·0	6·3	3·21	·88	17	18	2	4	15	2	1	3	0	2	5	15	22	13	1
Killarney	29·904	41·5	40·6	41·1	34·7	47·9	18·6	12	55·2	6	40·5	39·6	92	91	6·1	5·5	9·94	1·79	31	21	0	6	9	6	0	2	0	1	7	20	13	7	12
Columns	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Alnwick ..	●	●	●	≡	..	●	..	..	●	●✱▲	●▲	●▲≡	≡	●✱▲	≡	●	●✱	✱	●	●≡	●	≡	≡	●≡	●	..	..	..	●	●ψ	≡
Scaleby	●	..	●	●	●	●	..	●ψ	✱	..	..	..	●	..	..	●	●	●✱	●	●	..	..	..	●	●	●	..	..	●	●▲ψ	●ψ
Scarborough	●≡	..	..	●	..	●	..	..	≡	●▲	●	●	..	●≡	●≡	●≡	●	●	●	●✱	..	..	..	●	●	..	..	≡	≡	●	●≡
Wakefield ..	●	..	..	●	●	●	●	..	≡	●≡	●	●	≡	●	●≡	●	●	●▲	●	●✱	..	..	≡	●≡	●	..	..	●	..	●	●≡
Mansfield ..	●	●	..	●	ψ	●	..	≡	≡	≡	●✱≡	●	≡	●	●✱≡	●	●	●✱	●✱	●✱≡	●	≡	≡	●≡	●	..	≡	●≡	..	..	●≡
Buxton	●	..	..	●	..	●	..	..	≡	●	✱	●✱	..	●✱	●✱	●✱	●	●✱▲	●	●✱	✱	..	..	✱	●	..	..	..	●	●	●
Cheadle	●	..	..	●≡	●	●	..	..	≡	●	●✱	..	≡	●✱	●≡	●≡	●	..	●✱	●✱	··	..	≡	✱	..	●	..	●	●	●	●
Llandudno ..	●	●	●	..	●	●	●	..	●	.	..	..	●	●	..	●	●	●▲	●	●✱	..	..	..	●	..	..	..	..	●	●	●
Leaton	●	..	●	..	ψ	●✱	..	..	..	≡	●	..	≡	●	..	●	●	●	●	●	..	..	..	●	..	..	..	≡	●	..	●≡
Churchstoke	●	●	●	..	..	●	●	..	..	≡	●	●	..	≡	≡	●✱	●✱	●✱	●	●	..	≡	..	●	●	..	..	≡	..	●	●≡
Cheltenham	●≡	..	..	●	●≡	●	..	..	≡	≡	●≡	●	≡	●≡	●≡	●	●	..	●	●	..	..	≡	●	●	..	..	ψ	..	●	●
Carmarthen	●	●	●	●	●	●	●	●	..	..	●	..	●	●	●	●≡	●	..	●	●	..	..	..	●	●	●	..	≡	●	●≡	●≡
Dartmoor ..	●	●≡	●≡	●	●	●	●	●≡	..	..	●	..	..	●	●	●≡	●	●✱	●≡	●	●▲	✱▲	..	..	●≡	≡	..	..	..	●	..
Babbacombe	●	●	●	●○	●○	●	●	●	●	..	..	..	..	●	●	●	●	●✱▲	●	●✱Ϟ	..	●▲	Ψ	..	●	≡	..	..	..	●≡	●≡
Downside ..	..	●	..	●	●	●	●▲	●	≡	≡	..	..	..	●	●≡	●	●✱	●▲	●▲	●▲	..	..	●≡	..	..	●≡	≡	≡	..	●	..
Marlborough	●	●	..	●	●	●	●	●≡	≡	✱≡	●	●	..	●	●≡	●	●	●	●	●✱	..	..	≡	..	●	≡	≡	≡	≡	●	..
Strathfield T.	●	ψ	○	..	●≡	●	≡	..	≡	●✱	✱	●≡	≡	●≡	●≡	●	●	..	●	●✱	..	≡	≡	≡	..	●	..	●≡	..	..	..
Norwood	●	..	..	●	●	●≡○	..	●ψ	●≡	●✱≡	●≡	●≡	≡	●≡	●	●	●	▲	●✱	●	..	≡	≡	≡○ψ	●≡	≡	..	●≡	..	..	≡
Croydon	●	●	..	●	●≡	●ψ	≡	●	●≡	●✱≡	●✱≡	●≡	≡	●≡	●	●	●	▲	●	●▲ς	..	≡	≡	≡	..	●≡	..	..	..	..	✱
South Bourne	●	..	..	●	●	●	..	●	●✱	●✱	..	..	..	●	●	●	●	▲Ϟ	●	●▲Ϟ	..	..	..	..	●	..	..	..	..	..	..
Ramsgate ..	●	..	..	●	●	●	..	●▲	●▲	●✱	●	●	●	●	..	●	●	..	●	●	..	..	●	..	●	●	..	..	..	..	..
Hillington ..	●	..	ψ	●	●	●	..	..	≡	≡	●	●	..	●	●	●	●	..	●	●	..	..	..	..	●	●	≡	≡	ψ	ψ	..
Lowestoft ..	●	..	ψ	..	●	●	●	●	●	●≡	≡	≡	●	●	●	●	●✱	●✱	●	●	..	●	..	●	..	..	●	..	..	..	..
Killarney ..	●▲	●ψ	●≡	●	●ψ	●▲	●▲	●▲	●≡	..	≡	..	●	≡	●	●	●	●▲	●▲Ϟ	●▲	≡	..	●	●≡	..	..	..	●	●	..	●

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✱ snow; ▲ hail; ≡ fog; Ϟ thunderstorm; ᴛ thunder; ς lightning; ○ solar halo; ψ lunar halo; Ψ aurora.

Abstract of Climatological Observations for the Quarter ending DECEMBER 31st, 1881.

Station.	OCTOBER.												NOVEMBER.												DECEMBER.											
	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.								Means.				Extremes in Month.								Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.	
Alnwick	44·8	81	39·0	50·9	11·9	44·9	23·6	61·4	37·8	6·8	3·08	19	43·7	88	39·3	51·0	11·7	45·2	28·4	61·6	33·2	6·0	3·43	19	37·9	89	34·0	42·9	8·9	38·4	24·6	51·6	27·0	5·7	2·61	18
Stapleton	44·7	88	37·6	51·3	13·7	44·5	21·9	63·0	41·1	5·7	2·89	13	45·5	93	39·4	51·3	11·9	45·3	26·2	58·2	32·0	8·5	5·71	21	37·6	95	33·7	42·8	9·1	38·3	23·0	53·0	30·0	8·6	3·97	20
Scaleby	44·6	83	36·8	50·5	13·7	43·7	20·0	66·3	46·3	6·0	2·54	16	46·7	85	40·2	52·0	11·8	46·1	27·5	60·0	32·5	7·8	4·39	20	38·1	91	33·1	42·1	9·0	37·6	21·0	51·2	30·2	7·7	2·94	18
Alston	41·6	88	34·3	47·6	13·3	41·0	13·8	62·8	49·0	7·3	4·74	21	43·6	88	37·4	48·6	11·2	43·0	20·6	66·3	45·7	8·4	5·84	23	35·1	89	30·3	39·6	9·3	34·9	12·3	48·0	35·7	8·0	4·33	23
Cockermouth ..	46·1	81	37·9	52·6	14·7	45·3	21·7	66·8	45·1	6·2	2·36	11	47·3	87	42·1	52·7	10·6	47·4	28·2	62·9	34·7	8·5	6·93	24	39·4	89	34·5	44·2	9·7	39·3	19·9	53·0	33·1	8·2	3·05	16
Seathwaite ..	44·7	80	38·8	51·2	12·4	45·0	23·0	63·0	40·0	7·0	6·57	14	47·0	85	42·8	51·7	8·9	47·2	28·6	62·8	34·2	9·2	16·17	26	39·2	86	35·3	43·1	7·8	39·2	23·6	52·0	28·4	8·0	14·58	25
St. Mich.-on-Wyre	46·7	81	38·8	52·0	13·2	45·4	23·7	61·0	37·3	6·3	2·36	11	46·3	90	40·3	52·5	12·2	46·4	28·2	59·1	30·9	7·2	5·34	23	37·3	91	32·8	43·0	10·2	37·9	20·1	50·7	30·6	8·0	4·70	21
Blackpool	47·1	82	38·8	51·4	12·6	45·1	25·6	59·7	34·1	6·2	2·73	13	46·9	92	41·6	51·8	10·2	46·7	29·5	56·7	27·2	6·5	5·51	23	38·5	90	33·5	43·5	10·0	38·5	22·6	51·3	28·7	7·0	3·98	23
Blackburn ..	..	..	..	..	..	..	..	..	..	6·6	2·81	11	..	..	..	..	..	..	..	..	..	8·2	5·12	23	..	..	..	..	..	..	..	..	..	8·1	4·55	22
Scarborough ..	47·5	79	42·6	50·3	7·7	46·4	33·5	60·8	27·3	6·4	3·98	21	46·3	87	42·7	51·5	8·8	47·1	33·5	61·1	27·6	6·5	1·81	18	39·0	91	35·9	43·4	7·5	39·7	29·0	49·4	20·4	5·9	2·40	17
,, (St. Nichs.)	46·4	79	41·8	50·1	8·3	46·0	30·2	59·9	29·7	6·6	4·23	22	45·3	87	40·6	50·9	10·3	45·7	32·2	60·4	28·2	6·8	1·95	21	37·9	91	34·2	42·4	8·2	38·3	26·2	49·3	23·1	6·4	2·42	16
Wakefield	45·3	81	39·5	51·4	11·9	45·4	25·2	61·0	35·8	7·2	3·26	18	47·0	84	42·0	53·9	11·9	48·0	30·2	62·6	32·4	7·1	2·73	19	38·1	87	33·6	44·2	10·6	38·9	22·7	54·0	31·3	7·7	2·74	20
Hodsock	45·9	82	38·8	51·8	13·0	45·3	25·8	61·4	35·6	6·6	2·33	19	46·6	87	41·6	53·7	12·1	47·7	29·2	64·5	35·3	6·4	2·08	16	36·7	91	32·1	43·3	11·2	37·7	20·3	52·0	31·7	6·1	2·23	19
Macclesfield ..	44·3	83	38·5	49·7	11·2	44·1	25·2	59·1	33·9	2·8	2·85	12	46·6	89	41·8	52·6	10·8	47·2	31·0	60·6	29·6	2·8	3·71	19	36·9	94	33·0	42·1	9·1	37·6	18·2	49·9	31·7	2·8	3·73	15
Buxton	42·8	85	36·1	47·7	11·6	41·9	26·0	55·2	29·2	7·4	6·04	17	44·8	91	38·8	50·3	11·5	44·6	28·5	58·1	29·6	7·7	6·60	22	35·6	94	30·9	41·1	10·2	36·0	17·4	51·2	33·8	7·5	6·06	16
Beacon Stoop..	41·3	90	37·1	46·1	9·0	41·6	27·2	53·9	26·7	8·0	3·65	14	43·3	95	38·8	48·3	9·5	43·5	26·8	56·6	29·8	8·6	4·42	21	34·9	96	31·2	39·3	8·1	35·3	22·9	47·6	24·7	8·1	3·70	20
Oakamoor	44·6	82	37·1	51·1	14·0	44·1	22·8	60·7	37·9	7·1	3·53	13	45·4	90	37·7	52·6	14·9	45·1	27·8	60·7	32·9	7·3	3·83	17	35·0	94	30·3	42·1	11·8	36·2	20·1	50·9	30·8	7·4	3·44	17
Cheadle	43·1	85	38·7	49·6	10·9	44·2	28·7	58·9	30·2	6·6	3·50	12	44·8	94	40·4	51·1	10·7	45·7	29·8	60·7	30·9	7·3	3·54	20	35·9	94	31·8	41·7	9·9	36·8	22·5	50·3	27·8	6·9	2·96	17
Mansfield	44·8	86	39·4	49·8	10·4	44·6	28·6	59·5	30·9	6·7	3·10	20	46·0	93	41·1	51·8	10·7	46·4	31·0	61·1	30·1	6·6	2·81	20	36·1	94	32·6	42·0	9·4	37·3	21·0	50·9	29·9	6·6	2·58	18
Belper	44·1	87	39·1	50·2	11·1	44·6	26·0	59·4	33·4	5·9	3·93	16	45·5	92	40·8	52·0	11·2	46·4	29·7	60·6	30·9	6·5	4·07	20	36·8	93	32·7	42·1	9·4	37·4	22·4	51·3	28·9	6·1	2·79	14
Strelley	44·7	85	38·4	50·4	12·0	44·4	27·3	59·2	31·9	6·4	3·46	16	45·6	91	40·5	51·9	11·4	46·2	30·3	60·6	30·3	6·5	3·16	17	36·2	93	32·4	41·9	9·5	37·1	22·0	50·8	28·8	6·4	2·38	17
Loughborough	45·0	84	39·8	52·4	12·6	46·1	26·6	65·1	38·5	6·7	2·92	19	46·3	89	41·8	53·4	11·6	47·6	31·1	62·7	31·6	6·8	2·58	18	36·9	92	33·1	43·1	10·0	38·1	23·5	53·3	29·8	6·8	2·64	14
Llandudno	48·0	78	42·4	52·3	9·9	47·3	30·6	60·0	29·4	7·2	2·42	13	50·5	81	46·0	55·6	9·6	50·8	35·3	62·8	27·5	6·9	3·06	16	42·8	84	38·2	47·3	9·1	42·8	30·2	56·5	26·3	6·5	2·55	18
Chester	45·7	80	39·3	52·6	13·3	46·0	28·0	62·0	34·0	8·3	2·50	14	48·1	86	42·9	54·5	11·6	48·7	32·2	63·0	30·8	6·8	2·31	19	38·1	90	34·0	44·6	10·6	39·3	21·5	55·7	34·2	8·1	2·54	19
Leaton	44·2	86	37·0	51·0	14·0	44·0	24·2	60·6	36·4	6·6	2·35	14	46·8	89	40·3	52·9	12·6	46·6	29·0	61·8	32·8	6·1	2·51	20	36·8	90	30·6	42·8	12·2	36·7	18·5	53·5	35·0	6·5	2·15	13
Churchstoke ..	43·8	87	37·6	50·2	12·6	43·9	23·5	59·5	36·0	7·1	3·12	13	47·6	86	41·4	52·9	11·5	47·2	31·5	61·7	30·2	6·6	3·66	20	37·3	89	32·6	44·0	11·4	38·3	22·1	53·3	31·2	6·8	3·69	16
Kenilworth ..	44·9	84	38·3	50·9	12·6	44·6	24·3	60·4	36·1	6·5	2·66	21	46·3	91	41·3	53·0	11·7	47·1	29·6	60·1	30·5	6·9	3·06	21	36·7	94	32·4	42·3	9·9	37·4	20·4	51·6	31·2	7·1	2·98	14

Station.	OCTOBER.												NOVEMBER.												DECEMBER.											
	Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.								Means.				Extremes in Month.								Means.				Extremes in Month.						
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.	
Cheltenham	45·0	85	36·8	51·6	14·8	44·2	21·5	60·6	39·1	6·9	2·05	16	48·5	87	42·1	54·0	11·9	48·0	28·8	61·3	32·5	6·7	3·25	23	39·1	87	32·6	44·3	11·7	38·5	19·0	54·0	35·0	7·1	2·90	16
Burghill	45·7	84	38·8	52·5	13·7	45·6	23·8	61·1	37·3	6·9	1·92	13	47·7	89	42·5	54·1	11·6	48·3	32·6	63·9	31·3	7·3	2·33	19	37·3	91	33·3	44·5	11·2	38·9	21·9	52·7	30·8	5·8	2·18	15
Ross	45·9	82	38·9	53·1	14·2	46·0	25·8	61·8	36·0	6·4	2·73	12	48·8	87	43·4	53·9	10·5	48·7	32·6	60·8	28·2	6·9	3·74	22	38·6	89	34·2	44·6	10·4	39·4	18·6	53·5	34·9	5·8	2·38	16
Carmarthen ..	47·4	80	39·8	53·9	14·1	46·8	26·5	63·7	37·2	5·5	3·44	15	49·5	89	44·2	54·2	10·0	49·2	33·9	63·7	29·8	7·7	6·92	27	39·7	93	34·9	46·2	11·3	40·6	20·3	53·0	32·7	6·1	5·63	22
Cardiff.....	46·6	82	41·2	53·1	11·9	47·2	26·9	61·6	34·7	..	3·23	13	48·8	89	44·6	54·1	9·5	49·3	30·7	59·9	29·2	..	4·98	23	40·2	92	36·7	45·7	9·0	41·2	24·3	53·7	29·4	..	4·50	15
Weston-s-Mare	47·1	85	42·5	53·8	11·3	48·2	29·0	60·8	31·8	5·9	2·27	14	49·4	87	44·4	54·9	10·5	49·6	32·2	62·5	30·3	7·7	3·11	18	41·7	88	38·2	46·7	8·5	42·5	28·3	55·2	26·9	7·5	2·68	13
Ilfracombe ..	51·2	77	46·6	56·0	9·4	51·3	37·0	65·5	28·5	5·5	1·45	10	52·7	84	48·2	57·6	9·4	52·9	39·0	66·0	27·0	7·8	3·88	22	45·7	79	41·7	49·3	7·6	45·5	33·0	55·0	22·0	7·1	4·69	19
Bude	49·2	82	41·6	55·2	13·6	48·4	24·7	63·0	38·3	4·1	2·64	11	50·9	91	44·4	56·2	11·8	50·3	30·7	64·0	33·3	6·4	3·85	19	42·8	91	37·2	48·6	11·4	42·9	24·7	56·4	31·7	5·7	5·54	17
Helston	51·0	79	44·2	54·8	10·6	49·5	32·4	60·0	27·6	6·0	2·97	13	52·0	88	47·7	55·2	7·5	51·4	37·0	59·0	22·0	7·6	4·72	23	43·8	87	38·0	49·3	11·3	43·7	28·2	54·8	26·6	6·6	4·87	22
Falmouth	51·3	79	46·4	55·0	8·6	50·7	32·4	60·9	28·5	5·5	3·46	13	52·2	88	48·1	55·7	7·6	51·9	40·1	59·8	19·7	7·0	7·19	24	43·8	86	39·7	48·8	9·1	44·3	30·0	54·7	24·7	5·0	5·85	21
Maker	48·7	81	44·3	54·7	10·4	49·5	30·5	60·6	30·1	5·0	2·69	14	51·1	88	47·7	55·4	7·7	51·5	37·0	60·6	23·6	8·2	5·01	25	43·0	86	39·5	47·9	8·4	43·7	29·0	54·3	25·3	6·2	3·58	23
Dartmoor	43·3	88	37·8	48·4	10·6	43·1	25·0	54·0	29·0	6·5	8·04	14	46·9	95	41·2	50·4	9·2	45·8	28·5	55·0	26·5	9·2	14·33	27	38·5	94	33·3	42·6	9·3	38·0	24·0	49·2	25·2	8·2	9·22	19
Ashburton	49·7	85	42·7	54·2	11·5	48·4	31·0	62·5	31·5	5·7	7·29	13	50·5	92	45·6	56·0	10·4	50·8	35·0	61·7	26·7	7·3	9·81	23	42·2	93	37·5	47·9	10·4	42·7	30·0	53·9	23·9	6·6	5·12	19
Bridgetown....	49·3	79	40·2	56·2	16·0	48·2	20·9	65·8	44·9	5·7	6·05	13	50·9	88	44·5	57·1	12·6	50·8	29·0	64·9	35·9	7·8	7·67	23	41·6	88	35·3	49·5	14·2	42·4	22·9	56·4	33·5	6·7	4·68	19
Torquay, C. C.	49·6	79	43·6	53·7	10·1	48·7	27·2	60·8	33·6	5·9	3·77	13	52·0	88	46·6	55·6	9·0	51·1	35·8	60·8	25·0	7·3	5·51	20	43·6	87	38·7	48·5	9·8	43·6	29·5	54·7	25·2	6·8	3·30	18
Torquay, R. ..	48·3	80	43·7	54·0	10·3	48·8	29·3	61·5	32·2	6·2	3·56	13	50·4	89	45·9	54·6	8·7	50·3	35·9	60·0	24·1	7·5	5·32	20	42·4	86	38·2	47·3	9·1	42·7	27·8	53·2	25·4	7·3	3·38	19
Babbacombe ..	49·3	78	43·5	53·9	10·4	48·7	30·2	65·3	35·1	6·0	4·18	13	50·6	89	45·4	55·5	10·1	50·5	37·8	62·3	24·5	7·3	5·83	25	42·3	87	37·6	48·4	10·8	43·0	29·0	54·2	25·2	7·0	3·49	20
Teignmouth, B.	49·7	77	44·0	56·1	12·1	50·0	27·9	64·0	36·1	5·5	4·59	14	51·6	86	46·5	56·6	10·1	51·6	33·4	62·4	29·0	7·7	4·38	20	42·8	85	38·0	49·3	11·3	43·6	30·0	56·0	26·0	6·8	2·97	20
Teignmouth, W.	50·6	82	41·4	56·9	15·5	49·2	29·3	65·4	36·1	5·3	4·73	15	51·9	91	44·3	57·2	12·9	50·7	35·3	63·2	27·9	6·9	4·94	22	43·5	88	36·2	49·8	13·6	43·0	26·7	57·0	30·3	6·5	3·13	20
Sidmouth	47·8	86	42·4	53·6	11·2	48·0	29·8	61·6	31·8	6·9	2·04	13	50·6	91	46·2	55·4	9·2	50·8	36·2	59·6	23·4	7·7	4·12	24	42·6	90	38·5	47·6	9·1	43·1	28·0	54·2	26·2	7·6	2·74	19
Brampford Spk.	46·2	87	39·7	52·7	13·0	46·2	24·0	59·9	35·9	5·9	3·20	12	49·2	91	42·8	54·7	11·9	48·7	26·9	59·7	32·8	7·7	3·54	23	39·8	93	35·4	45·7	10·3	40·6	26·6	53·7	27·1	6·9	3·15	19
Cullompton ..	47·3	85	39·2	53·5	14·3	46·3	21·9	61·1	39·2	6·6	2·19	15	48·8	89	42·4	55·3	12·9	48·9	29·2	61·4	32·2	7·4	3·65	24	40·2	91	35·1	46·6	11·5	40·8	24·2	53·8	29·6	6·7	3·84	19
Swanage	48·8	81	42·8	52·6	9·8	47·7	29·7	60·8	31·1	5·2	1·58	7	51·4	89	46·7	54·0	7·3	50·4	36·4	57·6	21·2	6·5	5·67	18	44·2	84	39·6	46·8	7·2	43·2	29·4	53·3	23·9	5·9	2·86	13
Bournemouth	46·3	83	40·2	53·9	13·7	47·1	26·5	61·9	35·4	4·1	1·77	9	49·5	89	44·4	54·3	9·9	49·3	30·3	60·3	30·0	6·3	5·76	19	41·7	88	37·7	46·2	8·5	42·0	27·6	53·9	26·3	5·0	3·07	12
South Bourne ..	47·2	81	40·8	53·8	13·0	47·3	26·0	61·9	35·9	4·8	1·43	10	50·2	88	46·1	54·5	8·4	50·3	34·9	60·9	26·0	6·6	4·74	17	42·4	85	38·6	47·0	8·4	42·8	28·8	53·8	25·0	6·4	2·98	14
Southampton..	46·8	84	38·7	54·1	15·4	46·4	22·3	64·2	41·9	5·3	1·52	15	49·3	89	42·5	54·9	12·4	48·7	30·1	61·4	31·3	7·1	4·98	25	39·7	92	34·4	45·7	11·3	40·0	24·6	53·9	29·3	7·2	2·98	21
Portsmouth ..	46·9	90	36·4	54·3	17·9	45·4	24·0	63·6	39·6	4·7	1·55	11	50·1	89	40·2	55·0	14·8	47·6	26·3	60·6	34·3	7·4	4·71	24	42·1	89	32·6	46·2	13·6	39·4	24·4	54·5	30·1	7·5	2·88	21

Abstract of Climatological Observations for the Quarter ending DECEMBER 31st, 1881.

Station.	OCTOBER.												NOVEMBER.												DECEMBER.											
	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.								Means.				Extremes in Month.								Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°		In.	
Ventnor	49·2	79	44·1	54·2	10·1	49·1	31·7	61·7	30·0	5·1	1·60	11	51·3	87	47·8	55·1	7·3	51·5	39·0	60·5	21·5	7·5	4·15	20	43·4	88	40·1	47·9	7·8	44·0	30·7	54·9	24·2	7·1	4·40	14
Worthing	47·9	79	41·2	53·5	12·3	47·4	29·3	63·5	34·2	4·7	2·33	10	50·2	89	45·8	53·5	7·7	49·6	36·7	57·0	20·3	7·0	3·65	18	42·1	87	37·7	46·0	8·3	41·8	29·7	52·3	22·6	6·4	2·84	16
Ramsgate	47·8	84	44·1	52·1	8·0	48·1	33·5	61·7	28·2	6·5	5·28	21	48·3	90	43·7	52·7	9·0	48·2	31·5	60·2	28·7	7·9	2·01	15	40·9	88	36·6	45·2	8·6	40·9	30·5	53·0	22·5	7·3	3·10	18
Southend	47·3	..	41·8	53·0	11·2	47·4	30·7	62·8	32·1	6·9	3·36	15	48·3	..	44·1	53·8	9·7	48·9	31·8	59·9	28·1	7·5	1·74	14	39·6		36·6	45·1	8·5	40·9	26·0	53·9	27·9	8·7	2·55	13
Downside	44·0	89	38·9	51·4	12·5	45·1	25·4	59·6	34·2	6·5	2·58	15	47·1	94	42·6	53·0	10·4	47·8	34·4	58·5	24·1	7·3	6·56	24	38·5	93	34·7	44·4	9·7	39·6	25·6	51·9	26·3	7·5	4·93	16
Marlborough ..	44·6	84	37·3	51·4	14·1	44·3	21·3	60·3	39·0	6·0	1·26	12	46·9	91	42·0	52·9	10·9	47·5	31·1	60·1	29·0	7·8	3·82	19	37·4	93	33·5	43·6	10·1	38·5	22·3	51·8	29·5	7·5	3·52	18
Strathfield Turg	46·9	81	36·9	53·2	16·3	45·0	22·0	63·1	41·1	5·4	1·70	9	48·0	87	41·5	54·5	13·0	48·0	31·2	63·7	32·5	7·3	3·27	19	38·3	90	32·9	44·6	11·7	38·8	19·9	54·4	34·5	6·8	2·85	13
Swarraton	44·7	83	37·7	52·0	14·3	44·8	20·8	60·7	39·9	5·8	1·61	12	48·0	89	42·0	53·8	11·8	47·9	27·8	61·6	33·8	6·4	4·91	17	38·8	91	33·8	44·0	10·2	38·9	22·2	54·9	32·7	5·4	3·04	11
Harestock	45·6	79	38·3	52·6	14·3	45·5	26·1	63·0	36·9	5·7	1·42	11	48·5	83	42·6	54·6	12·0	48·6	29·5	60·0	30·5	7·4	4·84	20	39·2	84	34·2	44·9	10·7	39·5	23·4	54·9	31·5	6·8	3·10	14
Cranleigh	46·1	84	38·2	52·6	14·4	45·4	25·6	61·8	36·2	5·8	2·47	15	48·3	93	41·5	53·9	12·4	47·7	30·0	61·3	31·3	7·7	4·89	25	39·5	92	34·6	44·3	9·7	39·5	27·1	53·9	26·8	6·3	3·55	19
Tunb. Wells ..	44·8	85	38·9	49·7	10·8	44·3	27·3	58·5	31·2	6·3	3·14	18	47·8	93	43·0	52·3	9·3	47·7	28·0	60·7	32·7	7·5	4·44	20	38·1	93	34·6	42·7	8·1	38·6	27·8	52·0	24·2	6·8	3·61	17
Tunbridge	..	..	..	..	..	..	24·5	61·7	37·2	5·9	2·77	..	48·8	88	43·1	53·9	10·8	48·5	28·2	62·5	34·3	7·1	3·71	18	37·8	94	33·8	44·1	10·3	38·9	22·0	53·4	31·4	7·1	2·90	16
Beddington....	45·1	83	37·3	52·0	14·7	44·7	24·2	63·1	38·9	6·0	2·43	16	48·4	89	42·4	54·5	12·1	48·4	29·4	63·0	33·6	7·2	2·67	16	38·5	92	34·3	43·6	9·3	39·0	19·1	53·4	34·3	6·4	2·51	16
Croydon	45·4	82	38·4	52·1	13·7	45·2	26·1	62·2	36·1	6·3	2·44	17	49·0	86	43·2	54·4	11·2	48·8	30·0	62·2	32·2	7·7	3·69	18	39·4	89	35·6	44·3	8·7	40·0	22·7	54·2	31·5	7·3	2·85	17
South Norwood.	45·6	89	38·5	52·1	13·6	45·3	26·7	62·8	36·1	6·4	2·35	13	48·5	94	43·4	54·2	10·8	48·8	30·3	61·1	30·8	7·7	1·96	15	39·3	95	35·1	43·9	8·8	39·5	27·1	53·6	26·5	7·0	2·38	16
Norwood	45·2	83	38·8	51·9	13·1	45·4	25·6	61·9	36·3	6·0	2·58	16	48·6	88	42·8	54·1	11·3	48·4	31·7	62·5	30·8	7·4	2·65	18	39·1	91	35·0	44·0	9·0	39·5	22·7	53·7	31·0	7·4	2·64	17
Isleworth	45·4	86	38·2	53·2	15·0	45·7	25·0	62·7	37·7	6·1	2·32	10	48·5	89	42·5	54·7	12·2	48·6	29·0	64·0	35·0	7·3	2·64	18	38·3	93	33·4	44·0	10·6	38·7	23·5	54·6	31·1	6·9	2·46	16
Regent'sPark ..	45·8	81	39·9	51·9	12·0	45·9	28·0	62·0	34·0	..	3·39	11	48·8	88	44·1	53·7	9·6	48·9	31·5	63·0	31·5	..	2·25	16	39·4	90	35·3	43·8	8·5	39·6	25·2	53·8	28·6	..	2·24	15
Finchley	45·1	85	37·9	51·1	13·2	44·5	26·1	60·6	34·5	4·5	2·79	20	47·5	90	41·6	53·2	11·6	47·4	26·1	62·4	36·3	6·5	2·57	24	38·0	92	33·3	42·9	9·6	38·1	24·1	52·9	28·8	6·4	3·17	19
Watford	..	..	..	..	..	24·2	62·5	38·3	..	2·77	16	47·5	90	41·5	53·8	12·3	47·7	29·3	62·1	32·8	6·2	2·73	17	37·6	94	33·4	43·2	9·8	38·3	22·2	51·7	29·5	6·5	4·00	17
Throcking	43·8	87	37·9	49·9	12·0	43·9	27·3	58·4	31·1	5·5	2·42	17	46·3	92	41·3	52·1	10·8	46·7	29·6	61·2	31·6	7·0	2·36	18	36·4	95	32·8	41·2	8·4	37·0	26·3	50·4	24·1	6·5	4·01	18
Aspley Guise ..	46·6	81	38·4	50·9	12·5	44·7	26·4	59·9	33·5	6·0	2·28	14	47·6	89	42·1	53·5	11·4	47·8	30·8	60·0	29·2	6·2	2·42	15	37·8	93	33·6	42·7	9·1	38·1	24·8	52·1	27·3	6·8	3·57	16
Hillington	46·6	83	38·6	51·7	13·1	45·2	25·1	61·5	36·4	6·5	2·45	18	46·4	91	41·0	52·5	11·5	46·7	30·5	59·9	29·4	7·2	2·41	13	37·1	94	33·0	41·9	8·9	37·5	19·6	50·7	31·1	8·0	2·77	14
Cromer	47·3	82	42·3	..	..	..	32·1	..	..	6·2	3·05	22	46·8	88	41·5	..	..	..	30·1	..	..	6·1	2·14	12	37·4	93	33·5	..	..	..	23·1	..	..	6·1	3·11	13
Somerleyton ..	47·0	78	42·1	51·8	9·7	47·0	29·9	59·9	30·0	6·3	3·62	23	47·7	89	42·1	53·0	10·9	47·6	32·1	60·8	28·7	6·1	1·45	18	37·9	92	33·5	43·4	9·9	38·4	22·8	50·9	28·1	7·2	3·48	19
Lowestoft	47·8	77	42·4	51·9	9·5	47·2	32·3	59·6	27·4	7·0	3·26	20	47·5	89	43·0	52·7	9·7	47·8	36·0	60·0	24·0	6·5	1·26	11	39·0	92	35·1	43·6	8·5	39·4	27·0	51·0	24·0	7·0	3·21	18
Guernsey	51·3	76	46·2	56·7	10·5	51·5	35·3	64·7	29·4	6·3	2·89	16	51·8	90	46·7	57·3	10·6	52·0	35·3	63·9	28·6	7·5	4·75	20	43·9	87	40·4	49·3	8·9	44·8	34·5	55·9	21·6	6·3	3·64	18
Killarney	50·3	81	44·3	55·7	11·4	50·0	24·3	63·7	39·4	7·6	6·58	17	50·9	85	45·8	56·0	10·2	50·9	31·7	62·2	30·5	6·6	9·81	20	41·5	92	34·7	47·9	13·2	41·3	18·6	55·2	36·6	6·1	9·94	21

Abstract of Meteorological Observations for the YEAR 1881.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather, No. of days of					Wind, No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o	°	°	In.	In.														
Alnwick	29·893	45·5	43·4	44·5	39·0	52·1	0·1	Jan. 26	78·4	June 2	42·9	41·8	82	86	6·8	5·9	40·66	1·80	Sept. 21	201	49	14	155	26	69	35	44	88	91	106	107	91	99
Scaleby	·890	45·8	44·2	45·0	38·5	52·0	− 7·0	,, 16	77·5	May 29	43·6	42·7	84	87	7·2	6·1	35·94	1·84	June 30	195	15	39	152	33	26	70	128	32	29	201	85	15	144
Scarborough	·912	47·6	46·1	46·9	42·3	52·0	10·5	,, 26	81·0	Aug. 5	44·9	44·2	82	86	6·8	5·8	34·60	2·47	Aug. 29	198	38	39	136	21	87	57	56	70	80	172	155	50	3
Wakefield	·928	47·3	46·2	46·7	40·3	54·0	12·1	,, 18	86·8	July 5	....	....	..	....	...	....	29·32	1·20	Mar. 5	189	..	..	..	..	83	68	72	61	64	105	198	75	4
Mansfield	·941	46·7	44·7	45·7	39·8	53·3	6·0	,, 15	85·9	,, 5	...	....	...	....	7·0	5·7	30·21	1·34	Aug. 23	190	42	46	139	4	77	52	76	35	89	161	155	48	37
Buxton	·976	44·6	42·4	43·5	37·0	51·1	1·2	,, 25	82·6	,, 5	42·6	41·1	85	89	7·4	6·1	57·49	1·87	Feb. 7	183	55	16	134	5	7	64	51	117	5	134	77	265	10
Cheadle	·941	44·9	44·1	44·5	39·2	52·0	9·9	,, 25	81·8	,, 5	42·9	42·4	85	87	7·0	5·9	34·40	1·09	Feb. 7	187	37	41	144	37	82	49	108	67	61	93	97	109	64
Llandudno ..	·914	49·3	47·9	48·6	43·6	53·9	14·5	,, 26	74·8	,, 4	46·3	45·3	79	82	6·7	5·6	31·98	1·80	July 5	174	24	62	151	29	58	33	110	50	57	81	301	40	0
Leaton	....	46·7	44·6	45·7	38·1	54·1	1·0	,, 16	86·0	,, 5	....	....	....	....	....	....	23·92	·87	Feb. 7	181	22	..	..	..	..	..	..	..	..	..	..	..	..
Churchstoke	·955	46·0	44·6	45·3	38·8	53·4	− 1·0	,, 26	83·3	,, 5	43·7	42·8	83	86	7·1	6·0	28·58	1·70	Dec. 16	173	34	44	145	23	35	64	49	89	32	149	132	113	67
Cheltenham ..	....	48·0	46·2	47·1	38·9	55·1	− 3·3	,, 20	86·8	,, 5	45·4	44·3	82	86	6·9	5·8	25·28	·97	,, 17	185	22	29	123	6	55	47	32	62	124	144	109	47	110
Carmarthen ..	·940	48·8	46·5	47·6	41·3	55·1	3·8	,, 15	83·3	,, 5	46·2	....	82	....	6·6	5·5	47·60	1·58	Oct. 13	198	9	70	141	15	50	28	116	39	44	120	94	26	213
Dartmoor	....	....	....	....	....	....	10·0	,, 25	79·0	,, 15	....	....	....	....	....	....	....	....	.....	....	..	..	..	..	..	..	..	..	..	..	..	..	..
Babbacombe	·966	50·3	47·7	49·0	43·4	55·9	15·3	,, 20	82·8	,, 15	47·3	45·7	80	86	6·9	6·0	38·11	1·50	Mar. 13 / Oct. 20	177	18	38	145	57	56	116	84	35	73	147	133	69	17
Downside	·962	47·0	45·6	46·3	40·7	53·8	8·8	,, 15	83·8	,, 5	....	....	....	....	7·0	6·1	47·85	1·65	Feb. 9	176	24	42	146	35	39	137	40	34	62	196	122	84	16
Marlborough..	·972	47·6	45·6	46·6	39·9	54·9	6·9	,, 15	87·1	,, 15	44·9	43·8	81	87	7·1	5·8	32·59	·96	Aug. 21	166	19	49	153	2	23	31	79	24	53	78	96	24	322
Strathfield T.	·970	49·4	46·5	48·0	....	56·8	3·9	,, 22	93·9	,, 15	46·2	44·6	78	86	6·6	5·6	25·77	1·34	,, 12	143	18	59	136	2	50	105	54	61	68	151	122	88	31
Norwood	·969	48·9	47·1	48·0	41·5	56·1	10·8	,, 17	93·4	,, 15	45·7	44·9	79	84	7·0	5·5	25·26	1·24	Oct. 22	166	30	50	140	17	59	63	82	26	70	103	174	47	106
Croydon.....	·969	48·8	46·7	47·8	41·5	55·7	11·6	,, 21	92·4	,, 15	45·5	44·5	78	84	7·2	5·0	26·15	1·26	Aug. 12	174	26	47	122	15	46	79	60	41	75	173	134	35	87
South Bourne	·970	49·1	47·7	48·4	42·8	54·9	12·1	,, 24	80·2	,, 16	46·4	45·7	81	85	6·0	5·0	27·55	·97	Nov. 26	151	13	76	110	19	88	95	51	56	39	113	120	125	43
Ramsgate	·979	49·5	47·8	48·7	43·5	54·9	15·0	,, 15	84·7	,, 19	47·4	46·2	85	88	6·7	6·2	28·29	1·22	Aug. 12	196	19	48	147	23	15	86	100	24	48	221	46	58	132
Hillington ..	·938	48·3	45·0	46·6	39·7	54·8	1·3	,, 26	89·5	,, 15	45·5	43·5	82	89	7·5	6·5	26·97	·88	June 5 / July 6	187	32	26	162	14	44	87	63	84	78	193	74	105	2
Lowestoft	29·939	48·9	46·5	47·7	41·8	53·6	9·2	,, 15	87·0	,, 4	46·1	44·7	82	87	6·6	6·1	24·63	1·34	Aug. 29	175	23	46	143	23	49	72	88	59	56	116	179	99	12
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

Abstract of Climatological Observations for the YEAR 1881.

Station.	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Alnwick	45·5	82	39·0	52·1	13·1	45·6	0·1	78·4	78·3	6·8	40·66	201
Stapleton	45·0	85	37·9	51·3	13·4	44·6	2·0	78·5	76·5	7·2	45·82	193
Scaleby	45·8	84	38·5	52·0	13·5	45·3	− 7·0	77·5	84·5	7·2	35·94	195
Alston	42·6	83	34·4	49·2	14·8	41·8	− 9·0	77·8	86·8	7·7	49·38	245
Cockermouth	47·2	80	39·9	53·4	13·5	46·6	4·4	78·3	73·9	7·2	40·62	187
Seathwaite	45·5	81	40·0	51·7	11·7	45 8	6·9	77·3	70·4	7·5	127·43	229
St. Michael's-on-Wyre	46·9	82	39·5	53·3	13·8	46 4	− 7·5	80·5	88·0	7·1	45·06	196
Blackpool	46·8	83	40·5	51·9	11·4	46·2	− 0·5	76·8	77·3	6·4	43·29	198
Blackburn	..	..	..	..	..	..	..	..	..	7·5	44·85	216
Scarborough	47·6	82	42·3	52·0	9·7	47·2	10·5	81·0	70·5	6·8	34·60	198
,, (St. Nicholas)	46·4	..	40·4	51·6	11·2	46·0	7·7	80·1	72·4	7·1	34·85	198
Wakefield	47·3	..	40·3	54·0	13·7	47·2	12·1	86·8	74·7	..	29·32	189
Hodsock	47·4	81	39·4	54·7	15·3	47·0	1·6	85·7	84·1	7·7	24·06	192
Macclesfield	45·8	85	39·8	52·5	12·7	46·1	3·3	84·0	80·7	..	37·04	185
Buxton	44·6	85	37·0	51·1	14·1	44·1	1·2	82·6	81·4	7·4	57·49	183
Beacon Stoop	43·1	88	37·8	48·9	11·1	43·4	7·7	78·3	70·6	7·9	36·04	195
Oakamoor	45·9	82	37·6	53·1	15·5	45 3	3·1	84·7	81·6	7·1	37·14	185
Cheadle	44·9	85	39·2	52·0	12·8	45·6	9·9	81·8	71·9	7·0	34·40	187
Mansfield	46·7	..	39·8	53·3	13·5	46·6	6·0	85·9	79·9	7·0	30·21	190
Belper	46·0	85	39 9	53·0	13·1	46·5	6·5	84·0	77·5	6·1	36·66	178
Strelley	46·5	85	39·2	53·5	14·3	46·4	0·8	85·8	85·0	6·8	31·74	177
Loughborough	47·0	82	40·6	55·3	14·7	48·0	1·9	89·7	87·8	7·1	25·98	179
Llandudno	49·3	79	43·6	53·9	10·3	48·8	14·5	74·8	60·3	6·7	31·98	174
Chester	47·7	79	40·8	54·7	13·9	47·8	0·8	87·8	87·0	..	25·27	189
Leaton	46·7	..	38·1	54·1	16·0	46·1	1·0	86·0	85·0	..	23·92	181
Churchstoke	46·0	83	38·8	53·4	14·6	46·1	− 1·0	83·3	84·3	7·1	28·58	173
Kenilworth	47·1	83	39·7	54·2	14·5	46·9	3·7	87·9	84·2	7·1	28·73	186
Cheltenham	48·0	82	38·9	55·1	16·2	47·0	− 3·3	86·8	90·1	6·9	25·28	185
Burghill	47·8	.	40·2	55·6	15·4	47·9	1·1	85·8	84·7	6·9	23·70	161
Ross	48·5	..	40·8	55·9	15·1	48·4	2·9	86·8	83·9	6·3	28·78	184
Carmarthen	48·8	82	41·3	55·1	13·8	48·2	3·8	83·3	79·5	6·6	47·60	198
Cardiff	48·7	82	42·8	55·3	12·5	49·1	13·4	82·9	69·5	..	42·70	177
Weston-super-Mare	49·1	84	43·6	55·0	11·4	49·3	14·0	85·7	71·7	6·7	30·52	159
Ilfracombe	51·3	82	46·5	55·6	9·1	51·0	20·0	82·5	62·5	6·7	31·23	180
Bude	..	.	..	..	.	..	3·7	86·2	82·5	..	33·75	145
Maker	49·3	84	44·5	55·5	11·0	50·0	17·3	83·5	66·2	6·6	37·55	199
Dartmoor	..	..	..	..	..	..	10·0	79·0	69·0	..	..	..
Ashburton	50·3	86	42·9	56·0	13·1	49·4	15·6	83·7	68·1	6·5	61·27	187
Bridgetown	50 9	79	41·4	57·9	16·5	49·6	8·8	87·5	78·7	6·8	49·17	185

ABSTRACT OF CLIMATOLOGICAL OBSERVATIONS FOR THE YEAR 1881.

Station.	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Torquay, C. C.	50·4	83	43·9	55·2	11·3	49·6	18·0	81·4	63·4	6·6	36·15	162
,, R.	49·8	80	43·5	55·5	12·0	49·5	15·6	84·1	68·5	7·0	35·55	166
Babbacombe	50·3	80	43·4	55·9	12·5	49·7	15·3	82·8	67·5	6·9	38·11	177
Teignmouth, R.	50·4	79	44·1	56·8	12·7	50·5	15·7	84·9	69·2	6·9	37·15	173
,, W.	51·9	84	42·0	58·4	16·4	50·2	11·3	86·0	74·7	6·1	38·92	179
Sidmouth	49·3	85	43·2	54·9	11·7	49·0	13·0	77·9	64·9	7·4	34·67	180
Brampford Speke	48·7	..	41·6	55·3	13·7	48·5	10·6	81·1	70·5	7·3	32·95	178
Cullompton	49·3	81	40·7	56·3	15·6	48·5	7·1	85·5	78·4	6·7	37·26	181
Swanage	50·0	..	43·8	53·8	10·0	48·8	12·7	81·7	69·0	5·9	30·37	124
Bournemouth	49·4	80	42·1	55·7	13·6	48·9	11·2	85·5	74·3	5·1	33·05	131
South Bourne	49·1	81	42·8	54·9	12·1	48·9	12·1	80·2	68·1	6·0	27·55	151
Southampton	49·6	81	40·6	56·5	15·9	48·6	8·1	90·8	82·7	6·5	30·57	187
Portsmouth	50·0	..	38·3	56·5	18·2	47·4	7·4	86·3	78·9	5·7	29·03	176
Ventnor	50·4	82	45·0	55·9	10·9	50·5	14·9	81·6	66·7	..	32·25	163
Worthing	50·3	..	43·4	55·0	11·6	49·2	13·5	82·0	68·5	5·6	29·60	142
Ramsgate	49·5	85	43·5	54·9	11·4	49·2	15·0	84·7	69·7	6·7	28·29	196
Southend	..	..	..	..	..	..	..	90·7	..	7·2	20·82	150
Downside	47·0	..	40·7	53·8	13·1	47·3	8·8	83·8	75·0	7·0	47·85	176
Marlborough	47·6	81	39·9	54·9	15·0	47·4	6·9	87·1	80·2	7·1	32·59	166
Strathfield Turgiss	49·4	78	..	56·8	..	..	3·9	93·9	90·0	6·6	25·77	143
Swarraton	47·8	..	39·8	55·1	15·3	47·4	6·1	89·4	83·3	6·6	29·85	130
Harestock	48·3	76	..	55·7	..	..	6·1	89·3	83·2	7·0	32·50	146
Cranleigh	49·0	..	40·4	55·7	15·3	48·1	7·1	91·8	84·7	6·6	31·15	179
Tunbridge Wells	47·9	83	41·2	53·8	12·6	47·5	7·2	90·3	83·1	6·7	31·14	166
Tunbridge	..	..	..	..	..	..	0·5	94·2	93·7	6·2	25·53	..
Beddington	48·9	81	40·4	56·2	15·8	48·3	7·2	93·2	86·0	6·6	24·58	162
Croydon	48·8	78	41·5	55·7	14·2	48·6	11·6	92·4	80·8	7·2	26·15	174
South Norwood	48·8	84	41·6	55·9	14·3	48·8	11·1	94·1	83·0	7·0	22·30	155
Norwood	48·9	79	41·5	56·1	14·6	48·8	10·8	93·4	82·6	7·0	25·26	166
Isleworth	49·2	..	41·0	56·7	15·7	48·9	4·6	93·0	88·4	6·9	25·57	161
Regent's Park	48·7	80	42·2	56·0	13·8	49·1	9·8	93·5	83·7	..	27·04	150
Finchley	47·8	..	40·4	54·6	14·2	47·5	8·4	89·7	81·3	5·8	27·30	191
Watford	..	..	..	..	..	..	6·4	91·7	85·3	.	30·15	186
Throcking	46·7	85	39·9	53·9	14·0	46·9	10·7	89·6	78·9	6·5	27·32	186
Aspley Guise	48·5	80	40·1	55·0	14·9	47·6	6·9	90·7	83·8	6·7	25·38	159
Hillington	48·3	82	39·7	54·8	15·1	47·3	1·3	89·5	88·2	7·5	26·97	187
Cromer	48·2	..	41·7	..	..	..	12·1	.	..	6·2	..	..
Somerleyton	48·3	81	41·1	54·2	13·1	47·7	4·9	90·0	85·1	6·1	26·62	193
Lowestoft	48·9	82	41·8	53·6	11·8	47·7	9·2	87·0	77·8	6·6	24·63	175
Guernsey	51·4	84	46·1	57·0	10·9	51·6	26·4	84·5	58·1	6·4	33·27	171

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FOR THE YEAR 1882.

BY

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Assistant-Secretary.

VOL. II.

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WILLIAMS AND STRAHAN, 7 LAWRENCE LANE, CHEAPSIDE, E.C.

1883.

ERRATA.

Burghill	June	Rainfall, *for* 2·64 ins. *read* 2·71 ins.
Buxton	,,	,, ,, 8·05 ins. ,, 8·32 ins.
,,	,,	No. of rainy days, *for* 19 *read* 20.
Guernsey	February	Rainfall, *for* 1·89 in. *read* 1·35 in.
,,	,,	No. of rainy days, *for* 10 *read* 9.
Hastings	January	Mean max., *for* 44°·7 *read* 45°·2
,,	,,	,, range, ,, 6°·6 ,, 7°·1
,,	,,	,, temp. ,, 41°·4 ,, 41°·6
,,	,,	Extreme max. ,, 50°·1 ,, 50°·6
,,	,,	,, range, ,, 20°·9 ,, 21°·4
,,	February	Mean max., ,, 46°·4 ,, 46°·9
,,	,,	,, range, ,, 7°·3 ,, 7°·8
,,	,,	,, temp. ,, 42°·8 ,, 43° 0
,,	,,	Extreme max. ,, 53°·4 ,, 53°·9
,,	,,	,, range, ,, 21°·7 ,, 22°·2
,,	March	Mean max. ,, 51°·4 ,, 51°·9
,,	,,	,, range, ,, 10°·2 ,, 10°·7
,,	,,	,, temp. ,, 46°·3 ,, 46°·6
,,	,,	Extreme max. ,, 57°·6 ,, 58°·1
,,	,,	,, range, ,, 27°·3 ,, 27°·8
Helston	September	Rainfall, *for* 3·94 ins. *read* 3·93 ins.
Leaton	January	,, ,, 2·62 ins. ,, 2·60 ins.
,,	July	,, ,, 3·81 ins. ,, 3·98 ins.
,,	August	,, ,, 2·68 ins. ,, 2·64 ins.
,,	,,	No. of rainy days, *for* 17 *read* 18.
Oakamoor	July	Rainfall, *for* 3·89 ins. *read* 3·94 ins.
,,	,,	No. of rainy days, *for* 23 *read* 24.
,,	August	Rainfall, *for* 3·05 ins. *read* 3·09 ins.
,,	September	,, ,, 2·96 ins. ,, 3·03 ins.
Throcking	March	,, ,, 1·14 in. ,, 1·09 in.

INTRODUCTION.

The Monthly and Yearly Abstracts of Observations made at the Second Order and Climatological Stations, and the Report on the Meteorology of England, were formerly printed as an Appendix to the *Quarterly Journal of the Meteorological Society*. But as the number of Stations increased, more time was required for verifying and discussing the observations; the Council therefore decided not to delay the issue of the *Quarterly Journal*, but to publish the Reports on the Meteorology of England in a separate form under the title of *The Meteorological Record*, of which this is the second volume.

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Columns 13 and 14. The Relative Humidity is calculated by dividing the mean elastic force of aqueous vapour, at the temperature of the dew-point, by that at the temperature of the air (*i.e.* dry-bulb reading).

Columns 15 and 16. The Amount of Cloud is estimated according to the scale 0 to 10; 0 representing a cloudless sky, and 10 a completely covered or overcast sky.

Columns 17 to 20. The Rain is measured at 9 a.m., and the amount entered to the previous day. A fall of 0·006 inch and above constitutes a Day of Rain.

Column 21. When any snow falls it is entered as a Day of Snow.

Columns 22 and 23. When the mean of the 9 a.m. and 9 p.m. observations of the amount of cloud is less than 2·0, this is called a Day of Clear Sky, but when the mean is above 8·0 it is called an Overcast Day.

Column 24. When the Force of the Wind is 7 and above (on the scale 0 to 12) this is counted as a Gale.

Columns 25 to 33 give the sums of the observations of the Direction of the Wind at 9 a.m and 9 p.m.

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Buxton	,,	,, ,, 8·05 ins. ,, 8·32 ins.
,,	,,	No. of rainy days, *for* 19 *read* 20.
Guernsey	February	Rainfall, *for* 1·89 in. *read* 1·85 in.
,,	,,	No. of rainy days, *for* 10 *read* 9.
Hastings	January	Mean max., *for* 44°·7 *read* 45°·2
,,	,,	,, range, ,, 6°·6 ,, 7°·1
,,	,,	,, temp. ,, 41°·4 ,, 41°·6
,,	,,	Extreme max. ,, 50°·1 ,, 50°·6
,,	,,	,, range, ,, 20°·9 ,, 21°·4
,,	February	Mean max., ,, 46°·4 ,, 46°·9
,,	,,	,, range, ,, 7°·3 ,, 7°·8
,,	,,	,, temp. ,, 42°·8 ,, 43°·0
,,	,,	Extreme max. ,, 53°·4 ,, 53°·9
,,	,,	,, range, ,, 21°·7 ,, 22°·2
,,	March	Mean max. ,, 51°·4 ,, 51°·9
,,	,,	,, range, ,, 10°·2 ,, 10°·7
,,	,,	,, temp. ,, 46°·3 ,, 46°·6
,,	,,	Extreme max. ,, 57°·6 ,, 58°·1
,,	,,	,, range, ,, 27°·3 ,, 27°·8
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The Tables on pages 9, 11, 13, &c., show in a graphic manner the Phenomena observed at the Second Order Stations on each day of the month, and in which ● indicates Rain ; ✱ Snow ; ▲ Hail ; ≡ Fog ; ⌇ Thunderstorm ; ⊤ Thunder ; ≺ Lightning ; ○ Solar Halo ; ☬ Lunar Halo ; and ☫ Aurora.

The Tables on pages 14, 15, 16, &c., contain the results of the observations at the Climatological Stations, where the readings are taken once daily, viz. at 9 a.m. At these Stations the Minimum Temperature is entered to the morning on which it is observed, while the Maximum Temperature and Rainfall are entered to the previous day.

In these Tables the climatological results from the Second Order Stations are also included, but as the Maximum and Minimum Thermometers are read at 9 p.m. and not at 9 a.m., the names of the stations are printed in italics.

The first Table on pages 7, 23, 39, and 55 contains the Maximum, Minimum and Mean Temperatures of the Soil at depths varying from 3 inches to 4 feet below the surface.

The second Table on the same pages shows the total Duration of Bright Sunshine, together with the greatest amount on one day, and the number of days on which no sunshine was registered.

The following is a list of all the Stations, together with the county, the height above sea-level, and the name of the observer.

List of the Stations.

Station.	County.	Above Sea. Feet.	Authority.
Alnwick	Northumberland	213	J. Lingwood, F.M.S.
Alston	Cumberland	1145	T. W. Dickinson.
Ashburton	Devon	584	F. Amery, J.P.
Aspley Guise, Woburn	Bedford	433	E. E. Dymond, J.P., F.M.S.
Babbacombe	Devon	293	E. E. Glyde, F.M.S.
Beacon Stoop, Weaver Hills	Stafford	1216	C. L. Wragge, F.M.S., F.R.G.S.
Beddington	Surrey	102	S. Rostron, F.M.S.
Belper	Derby	344	J. Hunter, Jun., Assoc.M.Inst.C.E., F.M.S.
Blackburn	Lancashire	513	W. B. Bryan, M.Inst.C.E., F.M.S.
Blackpool	Lancashire	31	C. T. Ward, B.A., F.M.S.
Bolton	Lancashire	500	Rev. T. Mackereth, F.R.A.S., F.M.S.
Boston	Lincolnshire	20	E. C. Hackford.
Bournemouth	Hants	134	Sir B. J. Sulivan, K.C.B., F.M.S.
Brampford Speke	Devon	140	W. H. Gamlen.
Bridgetown, Totnes	Devon	107	T. H. Edmonds, F.M.S.
Bude	Cornwall	16	J. Arthur.
Burghill, Hereford	Hereford	275	T. A. Chapman, M.D.
Buxton	Derby	987	E. J. Sykes, M.B., F.R.A.S., F.M.S.
Cardiff	Glamorgan	43	W. Adams, M.Inst.C.E., F.M.S.
Carmarthen	Carmarthen	188	G. J. Hearder, M.D.
Cheadle (Tean)	Stafford	646	J. C. Philips, J.P., F.M.S.
Cheltenham	Gloucester	184	R. Tyrer, B.A., F.M.S.
Chester	Cheshire	65	A. O. Walker, F.L.S., F.M.S.
Churchstoke	Montgomery	549	P. Wright, F.C.S., F.M.S.
Cockermouth	Cumberland	144	H. Dodgson, M.D., F.R.A.S., F.M.S.
Cramlington	Northumberland	255	W. Bonallo.
Cranleigh	Surrey	370	J. Bryan.
Cromer	Norfolk	90	J. Cooper, F.R.C.S.
Croydon (Addiscombe)	Surrey	201	E. Mawley, F.M.S.
Cullompton	Devon	202	T. Turner, J.P., F.M.S.
Dartmoor (Prince Town)	Devon	1360	W. H. Tooker.
Downside, Radstock	Somerset	592	Rev. T. L. Almond, O.S.B., F.M.S.

List of Stations—*Continued.*

Station.	County.	Above Sea. Feet.	Authority.
Dublin	Dublin	51	W. J. Moore, M.D., F.M.S.
Falmouth	Cornwall	175	W. L. Fox, F.M.S.
Finchley	Middlesex	275	H. C. Stephens, F.C.S., F.M.S.
Guernsey	Channel Isles	180	F. E. Carey, M.D., F.M.S.
Harestock, Winchester	Hants	304	Lt. Col. H. S. Knight, F.R.A.S., F.M.S.
Hastings	Sussex	34	J. Peach.
Helston	Cornwall	185	J. Gill.
Hillington	Norfolk	88	Rev. H. E. B. Ffolkes, M.A., F.M.S.
Hodsock, Worksop	Notts	56	H. Mellish, F.M.S.
Ilfracombe	Devon	25	W. M. Tattam.
Isleworth	Middlesex	68	Miss E. A. Ormerod, F.M.S.
Kenilworth	Warwick	290	F. Slade, Assoc.M.Inst.C.E., F M.S.
Killarney	Kerry	91	Rev. G. R. Wynne, M.A., F.M.S.
Leaton, Shrewsbury	Salop	266	Rev. E. V. Pigott, M.A., F.M.S.
Llandudno	Carnarvon	79	J. Nicoll, J.P., M.D., F.M.S.
Loughborough	Leicester	169	W. Berridge, F.M.S.
Lowestoft	Suffolk	85	S. H. Miller, F.R.A.S., F.M.S.
Macclesfield	Cheshire	501	J. Dale, F.M.S.
Maker, Devonport	Cornwall	290	Rev. P. H. Newnham, M.A., F.M.S.
Margate	Kent	83	J. Stokes, F.M.S.
Marlborough	Wilts	471	Rev. T. A. Preston, M.A., F.M.S.
Norwood	Surrey	184	W. Marriott, F.M.S.
Oakamoor	Stafford	350	G. Williams.
Portsmouth	Hants	20	R. E. Power, L.R.C.P.
Ramsgate	Kent	90	M. Jackson, F.M.S.
Regent's Park	Middlesex	125	W. Sowerby, F.L.S., F.M.S.
Ross	Hereford	213	H. Southall, F.M.S.
Scaleby	Cumberland	111	R. A. Allison, F.M.S.
Scarborough	Yorkshire	130	F. Shaw, F.M.S., & W. C. Hughes, F.M.S.
Scarborough (St. Nicholas)	Yorkshire	157	J. McClelland.
Seathwaite	Cumberland	422	W. Dixon.
Sidmouth	Devon	186	W. T. Radford, M.D., F R.A.S., F.M.S.
Somerleyton	Suffolk	50	Rev. C. J. Steward, M.A., F.M.S.
Southampton (Highfield)	Hants	136	Rev. H. Garrett, M.A., F.M.S.
Southbourne-on-Sea	Hants	90	T. A. Compton, B.A., M.D., F.M.S.
Southend	Essex	100	G. Lingwood, F.M.S.
South Norwood	Surrey	190	W. F. Stanley, F.M.S.
St. Michael's-on-Wyre	Lancashire	26	Rev. P. J. Hornby.
Stapleton	Cumberland	400	T. H. Walker, L.R.C.P., F.M.S.
Strathfield Turgiss	Hants	195	Rev. C. H. Griffith, F.M.S.
Strelley	Notts	396	T. L. K. Edge, F.M.S.
Swanage	Dorset	178	B. Jumeaux, L.R.C.P., F M.S.
Swarraton, Alresford	Hants	310	Rev. W. L. W. Eyre, M.A., F.M.S.
Teignmouth (Bitton)	Devon	70	W. C. Lake, M.D., F.M.S.
,, (Woodway)	Devon	235	G. W. Ormerod, M.A., F.G.S., F.M.S.
Throcking, Buntingford	Herts	484	Rev. C. W. Harvey, M.A., F.M.S.
Torquay (Castle College)	Devon	166	C. J. Harland, F.M.S.
,, (Rocombe)	Devon	400	H. Hearder, F.M.S.
Tunbridge	Kent	99	W. C. Punnett, F.M.S.
Tunbridge Wells	Kent	500	F. Green, M.A., F.M.S.
Ventnor	Isle of Wight	80	H. Sagar.
Wakefield	Yorkshire	96	H. Clarke, L.R.C.P., F.M.S.
Watford	Herts	223	J. Hopkinson, F.L.S., F.G.S., F.M.S.
Weston-super-Mare	Somerset	20	W. E. Perrett.
Weymouth	Dorset	79	T. Groves, F.C.S.
Worthing	Sussex	21	W. J. Harris, M.R.C.S., F.M.S.

THE METEOROLOGICAL RECORD.

MONTHLY RESULTS OF OBSERVATIONS

MADE AT THE

STATIONS OF THE

METEOROLOGICAL SOCIETY,

WITH

REMARKS ON THE WEATHER

FOR THE QUARTER ENDING

MARCH 31ST, 1882.

BY

WILLIAM MARRIOTT, F.M.S.,

Assistant-Secretary.

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THE METEOROLOGICAL RECORD.

REMARKS

ON THE

WEATHER OVER ENGLAND

FOR THE QUARTER ENDING MARCH 31ST, 1882.

THE weather during the quarter has been remarkable for the high atmospheric pressure of January and February; the high temperature of January, February, and March; the cloudiness of the sky during the prevalence of the high barometer in January; and for the almost entire absence of snow.

AIR TEMPERATURE was much above the average.

In *January* the mean temperature (mean of maximum and minimum) was 41°·1, and varied from 45°·3 at Falmouth and Ilfracombe, 45°·0 at Helston, 44°·7 at Llandudno, 44°·8 at Teignmouth, 44°·1 at Weymouth, 44°·0 at Maker, and 43°·9 at Bridgetown and Torquay, to 37°·9 at Alston, 38°·2 at Buxton, 38°·5 at Dartmoor, 38°·6 at Portsmouth and Tunbridge Wells, and 38°·9 at Finchley. The weather was mild, dull, and misty generally throughout the month, the temperature being above the average from the 1st to the 16th, and from the 27th to the 31st. The maximum temperature occurred on various dates. The highest readings were:—On the 10th, 55°·5 at Sidmouth; on the 11th, 56°·0 at Burghill, and 55°·8 at Weymouth; on the 12th, 54°·8 at Bude; on the 14th, 55°·5 at Llandudno, and 54°·6 at Helston; on the 27th, 55°·2 at Bridgetown, and 54°·7 at Babbacombe; and on the 29th, 54°·8 at Teignmouth, and 54°·4 at Weston-super-Mare. The minimum temperature took place generally on the 18th, 19th, 24th, and 25th. The lowest readings were:—On the 18th, 23°·0 at Leaton, and 24°·2 at Tunbridge Wells; on the 19th, 20°·6 at Portsmouth, 21°·0 at Dartmoor, and 23°·8 at Swarraton; on the 24th, 23°·0 at Bridgetown, 23°·9 at Cullompton and Southampton, and 24°·0 at Harestock; on the 25th, 21°·8 at Finchley, 22°·2 at Isleworth, 23°·2 at Watford, 23°·6 at Tunbridge, and 24°·0 at Strathfield Turgiss; and on the 26th, 22°·8 at Beddington. The mean daily range of temperature was 9°·0.

In *February* the mean temperature was 42°·8, and varied from 46°·8 at Falmouth and Ilfracombe, 45°·7 at Helston, 45°·2 at Babbacombe and Maker, 45°·1 at Torquay, 45°·0 at Ventnor, 44°·9 at Teignmouth, and 44°·7 at Bridgetown, to 39°·9 at Throcking, 40°·1 at Buxton, 40°·4 at Finchley, 40°·8 at Hillington, 41°·0 at Cheadle, 41°·2 at Aspley Guise, Kenilworth, Somerleyton, and Strelley, and 41°·8 at Bolton. The weather

was mild, dry, and dull, the only cold period being from the 1st to the 9th. The maximum temperature occurred mostly from the 12th to the 14th, and from the 21st to the 27th. The highest readings were:—On the 12th, 57°·5 at Beddington and Bridgetown; on the 13th, 58°·0 at Wakefield; on the 14th, 57°·4 at Strathfield Turgiss, and 57°·2 at Isleworth; on the 21st, 58°·0 at Scaleby, 57°·5 at Alnwick, and 57°·3 at Cramlington; on the 22nd, 57°·8 at Babbacombe; on the 24th, 57°·2 at Sidmouth; and on the 27th, 58°·0 at Teignmouth. The minimum temperature took place generally on the 2nd. The lowest readings were:—22°·0 at Strathfield Turgiss, 22°·1 at Beddington, 22°·2 at Watford, 22°·6 at Tunbridge, 22°·7 at Norwood, 23°·0 at Aspley Guise and Finchley, and 23°·9 at Swarraton. The mean daily range of temperature was 10°·2.

In *March* the mean temperature was 45°·5, and varied from 47°·8 at Falmouth and Ilfracombe, 47°·6 at Teignmouth and Ventnor, 47°·1 at Ashburton and Helston, 46°·9 at Torquay and Weymouth, 46°·8 at Babbacombe, and 46°·7 at Maker, to 39°·8 at Alston, 42°·0 at Buxton, 42°·7 at Stapleton, 43°·2 at Bolton, 43°·5 at Cheadle, 43°·7 at Seathwaite, and 43°·8 at Cramlington, Leaton, and Macclesfield. The weather throughout the month was bright, fine, and mild. The maximum temperature occurred on the 16th, 17th, and 18th, the highest readings being:—On the 16th, 70°·1 at Chester and 66°·3 at Scarborough; on the 17th, 65°·5 at Tunbridge and Watford; and on the 18th, 65°·3 at Throcking, 65°·2 at Isleworth and Loughborough, 65°·0 at Ashburton, and 64°·8 at Norwood. The minimum temperature took place mostly on the 4th, 22nd, and 23rd. The lowest readings were:—On the 4th, 26°·0 at Leaton, 26°·1 at Portsmouth, and 26°·8 at Bridgetown and Southampton; on the 22nd, 25°·2 at Throcking, and 26°·1 at Macclesfield; on the 23rd, 23°·0 at Buxton, 23°·6 at Alston, 25°·0 at Cheltenham, 25°·1 at Beddington, and 26°·2 at Marlborough. Owing to the clear skies the mean daily range of temperature was 14°·5.

Atmospheric Pressure was considerably above the average.

In *January* the pressure was exceedingly high, especially during the middle of the month; the mean, reduced to sea-level, was 30·32 ins. The highest readings were in the south and the lowest in the north. The pressure was exceptionally high from the 14th to the 26th, during which period it remained constantly above 30·5 ins., and on 10 days exceeded 30·7 ins., on 4 days 30·8 ins., and on 2 days 30·9 ins. (For a full account of this abnormally high pressure see *Quarterly Journal of the Meteorological Society*, Vol. VIII, p. 146). The maximum occurred on the 18th; the highest being 30·984 ins. at Cheltenham at 10.30 a.m. The minimum took place in the north on the evening of the 2nd, and in the other parts of the country on the morning of the 3rd; the lowest being 28·900 ins. at Alnwick at 9 p.m. on the 2nd.

In *February* the pressure was not quite so high as in the previous month, but was still much above the average; the mean being 30·18 ins. The highest readings were in the south and the lowest in the north. The maximum occurred on the evening of the 19th, or morning of the 20th;

readings over the greater part of the country exceeding 30·8 ins.; the highest reported was 30·928 ins. at Babbacombe at 10 a.m. on the 20th. The minimum took place in the north on the 26th, and in the south on the 28th; the lowest readings were 28·846 ins. at Cramlington at 9 p.m. on the 26th; and 28·803 ins. at Carmarthen at 9 p.m. on the 28th.

In *March* the pressure was about the average, the mean being 29·97 ins. The highest readings were in the south and the lowest in the north. The maximum occurred in the central districts on the evening of the 15th, in the south on the 16th, and in the north-east on the morning of the 17th; the highest being 30·668 ins. at Marlborough at 9 a.m. on the 16th. The minimum took place on the 1st, the lowest being 28·769 ins. at Llandudno at 9 a.m.

RAINFALL was below the average.

In *January* the rainfall and number of rainy days were below the average. The monthly falls varied from 11·15 ins. at Seathwaite, 7·43 ins. at Dartmoor, 5·47 ins. at Carmarthen, 4·69 ins. at Buxton, 4·35 ins. at Bolton, and 3·98 ins. at Cockermouth, to 0·72 in. at Margate, 0·80 in. at Alnwick, 0·84 in. at Cramlington and Southend, 0·92 in. at South Norwood, and 0·99 in. at Hastings. The greatest daily falls occurred in the south-west on the 8th, and in the midland and eastern districts on the 29th. Falls exceeding 1·25 in. were registered as follows:—On the 1st, 1·81 in. at Seathwaite; on the 2nd, 1·58 in. at Seathwaite, and 1·43 in. at Dartmoor; on the 4th, 2·50 ins. at Seathwaite; on the 5th, 1·62 in. at Seathwaite; on the 8th, 1·82 in. at Dartmoor, and 1·40 in. at Carmarthen; and on the 29th, 1·54 in. at Wakefield, 1·40 in. at Belper, and 1·28 in. at Hodsock. Snow fell at a few places on the 1st, 7th, 29th, 30th, and 31st.

In *February* the rainfall and number of rainy days were about the average. The monthly falls varied from 13·80 ins. at Seathwaite, 4·58 ins. at Carmarthen, 4·33 ins. at Buxton, 3·98 ins. at Ashburton, 3·92 ins. at Cockermouth, and 3·84 ins. at Stapleton, to 0·71 in. at Cramlington, 0·75 in. at Southend, 0·91 in. at Margate, 1·10 in. at Alnwick, 1·18 in. at Hastings, 1·21 in. at South Norwood, and 1·22 in. at Ventnor. Falls exceeding 1 inch occurred as follows:—On the 12th, 2·90 ins. at Seathwaite; on the 16th, 1·20 in. at Seathwaite; on the 25th, 4·15 ins at Seathwaite, 1·24 in. at Ashburton, and 1·02 in. at Cockermouth; on the 26th, 1·14 in. at Bolton, 1·06 in. at Buxton and Wakefield, 1·02 in. at Macclesfield; and on the 28th, 1·13 in. at Falmouth, 1·06 in. at Ross, and 1·02 in. at Bridgetown. Snow and hail fell generally on the 15th.

In *March* the rainfall was much below the average. The monthly falls varied from 13·44 ins. at Seathwaite, 5·48 ins. at Alston, 4·41 ins. at Bolton, 4·88 ins. at Blackburn, 4·17 ins. at Cockermouth, and 3·92 ins. at Stapleton, to 0·61 in. at South Bourne, 0·64 in. at South Norwood, 0·65 in. at Harestock, 0·72 in. at Portsmouth and Southampton, 0·75 in. at Beddington, 0·77 in. at Bournemouth, and 0·80 in. at Weymouth. Falls of 1 inch and above occurred at Seathwaite on the 5th, 9th, 19th, 23rd, 24th, and 28th. The heaviest falls took place mostly on the 25th; the greatest amounts

being, 1·26 in. at Hillington, 0·88 in. at Belper, 0·87 in. at Strelley, 0·86 in. at Oakamoor, and 0·75 in. at Chester and Cromer. Snow fell on several occasions, chiefly on the 21st, 22nd, and 26th.

WIND.—In *January* the prevalent direction of the wind was SW from the 1st to the 11th, SE from the 12th to the 16th, NE from the 19th to the 24th, SW from the 27th to the 29th, and E on the 30th and 31st. Slight gales occurred on two or three occasions. In *February* the direction of the wind was variable, but E winds prevailed from the 1st to the 8th; and W from the 12th to the 22nd. Gales or strong winds occurred on the 25th, 26th, and 28th. In *March* the prevalent direction of the wind was from the SW. Gales were experienced on several occasions.

FOG was prevalent generally all over the country from *January* 11th to 27th and 30th; *February* 1st to 12th, and 20th to 24th; and *March* 4th, and 12th to 19th.

HALOS were seen on *January* 1st, 2nd, 4th, 5th, 7th, 8th, 11th, 12th, 25th, and 28th; *February* 1st, 10th, 11th, 14th, 26th and 27th; and on *March* 2nd, 4th, 6th, 8th, 20th, and 24th to 30th.

AURORA was observed on *January* 10th, and *February* 1st and 20th.

NOTES BY THE OBSERVERS.

ALNWICK, *January*.—Though generally misty, this month has been exceedingly fine, enabling the farmers to overtake the arrears of work, caused by the late and protracted harvest of last year. The ● has been very small and little ✳ or ▲ have fallen, slight frost has been recorded only 9 times upon the grass.

February.—The first part of this month was very favourable for seed time, but the latter half was more broken, though not so unfavourable as to retard agricultural operations. Bird's nests have frequently been found, some containing eggs, others a brood. Flowers now bloom in abundance.

March.—Though boisterous on the 1st, and continuous ● for 47 hours. there has been a great want of ● felt during the last 3 months, making tenacious soils "tough" to work, but vegetation is still progressing and is far in advance of last year. Spring sowing is nearly completed in this district.

ALSTON, *January*.—Thrush heard on the 12th, Starlings seen on the 19th. With the exception of the first 10 days, the month has been very mild. Primroses, Hepaticas, Violets, Polyanthus and Aconites have been in flower all the month. Several rose trees in leaf.

BABBACOMBE.—*January* was mild, very dull, gloomy and misty, with less than ½ the average ●, but a humid atmosphere and very high barometer. The first week was wet and stormy, with a low barometer. A long dry period of 15 consecutive days occurred from the 11th to 25th, and was the longest since one of 25 days, ending October 9th, 1877. The sky was almost entirely overcast from the 10th to 26th, with the exception of a fine day on the 24th, when the only frost in the air occurred. Mean Sea Temperature, 48°·4.

February was dry and very mild, with average amount of cloud. The ● and wet days were about ½ less than the average. The maximum temperature exceeded 50° on 15 days, and there was only 1 frosty night in the air. Vegetation was unseasonably forward. Mean Sea Temperature, 47°·1.

March was very mild, with an average relative humidity and number of wet days, but less than ½ the average ●. The weather was showery till the 11th, and after the 21st; but very fine from the 13th to the 19th. Parhelia were visible on the 18th and 27th. Vegetation was very forward. Mean Sea Temperature, 49°·0.

BUDE, *January*.—A month noted for high atmospheric pressure, dull cloudy skies, little wind, and extreme mildness. Primroses and violets in full bloom in the hedge rows.

CHELTENHAM, *January*.—A month of high abnormal pressure, irregular at commencement but gradually rising to the 18th. Temperature high; the mean temperature being 7°·6 above that of 1881.

February.—A month of great variation in the atmospheric pressure with mild temperature. ✳, for the first time this year, mingled with ● on the morning of the 15th. Hills white. Honeysuckle in well expanded leaf at the end of the month.

March.—Lovely weather prevailed from 4th to 20th. ✳ 21st and 22nd, drifts 2 ft. deep on Cotswolds. ≡ and high barometer occurred on 16th, 17th, and 18th, rapidly clearing off in the morning. A gale on the 26th with bright sun, clouds, and passing showers.

CHURCHSTOKE, *January.*—The whole month remarkable for its fine open weather. Stock doing well and fodder plentiful. Wheat in good condition.

February.—Fine mild weather; crocuses, snowdrops, primroses, violets, all in bloom; peach trees in flower on walls, chestnuts almost in leaf. Roots have sprouted very much, and by April will be scarce. Fodder fairly plentiful and stock improving. Wheat looks well, but generally too thick on the ground.

March.—Oats, peas and barley largely sown and put in well, though stiff soils work badly from want of frost. Wheat generally too thick, and in some cases pale in colour. Stock doing well, and fodder fairly plentiful. Prices of store stock good.

COCKERMOUTH, *January.*—A month of very mild weather, without a single nights' frost, except on the grass. Vegetation unusually forward for the season.

March.—Mean temperature of the month 2°·9 above the average of the last 20 years.

CRAMLINGTON, *January.*—Vegetation active. Wheat crops (autumn) look healthy and forward. Bushes in gardens shooting.

February.—This month has been exceptionally mild, and has been very favourable to farming operations.

March.—The ● has been small and the ground is consequently dry and vegetation not so forward as it would have been. All farming operations far in advance of recent years. The low night temperatures have had the effect of arresting vegetation, but nothing further.

CROYDON, *January.*—At the beginning of the year vegetation generally was in a very forward state, owing to the open weather of the 2 previous months. During the next fortnight the weather continued unusually mild and bright and moderate ● rather frequent, so that still further progress was made; but after this time, with the advent of lower temperatures, both above and below ground, and the almost total absence of ● or sunshine, no further advance took place. A *Cydonia Japonica* growing on an east wall came first into blossom on the 14th; a winter aconite and a crocus on the 21st. On the 18th there occurred a dense ≡, which lasted nearly all day, and was at 2 p.m. so thick that a house became quite hidden from view at a distance of 60 yards. The winds of greatest frequency were from SW, WSW, and SSW.

February.—Towards the end of the month many of my roses were in a very forward state, being covered with young leaves down to within a foot or so of the ground; and strange to say a *Gloire de Dijon*, growing on an east wall, although almost entirely destitute of foliage, had upon it a small half-expanded bloom. A snowdrop came first into flower on the 14th; while an almond tree on the west side of the house was first in blossom on the 26th.

March.—Vegetation generally continued to advance at a somewhat rapid rate, and owing to the absence of heavy ●, the great duration of warm sunshine and the frequent occurrence of moderate ground frosts, the progress made was of a very satisfactory character. A pear tree on a west wall came first into blossom on the 29th. At about 6.30 a.m. on the 26th, an exceptionally severe squall came up very suddenly, and the wind, which was at the time W in direction and almost calm, shifted all at once to the NNW. and began to blow with much violence. The most remarkable feature of this gale was, that although it lasted for the greater part of the day, the wind was never afterwards nearly so strong as during the first quarter of an hour after it sprung up. For 8 consecutive days (13th-20th) the sun while above the horizon shone almost continuously, there being only 1 day during this bright period when the recorded amount of sunshine fell short of 9 hours, and even then it exceeded 5½ hours.

DUBLIN, *January.*—An open, frostless month, with constant SW winds. The mean temperature was 1°2 above that of January, 1881.

February.—Singularly open weather; an absence of frost and of ✳; a high mean atmospherical pressure, and a preponderance of winds from points between S and W. Two-thirds of the total ● fell on the last 3 days.

March.—Unsettled, stormy, open weather. Mean temperature 3°·1 above the average of the previous 16 years in Dublin.

FALMOUTH, *January.*—A very cloudy month, but generally calm and fine, with a mean range of temperature of only 6°·3.

HILLINGTON, *January.*—A month of very exceptional mildness. A few sharp frosts and no ✳, and except at the beginning and end of month scarcely any ●. Much ≡ 17th-20th. ● 0·14 in. less than the mean 1866-81.

February.—An exceptionally mild month, only 2 sharp frosts. Vegetation less forward than might have been expected from the mildness owing to the absence of sun. An unusual number of overcast days. ● 0·24 in. less than the mean 1866-81.

March.—A mild pleasant month, free from the usual NE winds. Very dry but sunless, 1st-11th, then sunny with high day temperature and cold frosty nights., 12th-20th. ● every day 20th-26th. All crops look promising. ● 0·11 in. in excess of the mean 1866-81.

MACCLESFIELD, *January.*—This has been a remarkably mild month. The thermometer has been below 32° on 3 days only, the minimum being 30°·5.

March.—This month has been very mild, the mean temperature is 4°·2 above the average of 7 years. Scarcely any E winds.

SCARBOROUGH, *January.*—Another exceptionally mild month, characterised (for the time of year) by high temperature and deficiency in ●. Other noticeable features are the remarkably high barometer readings, and total absence of ✳ or ▲, altogether forming a striking contrast to the corresponding period last year. Mean temperature 2°·9 above the average, ● 0·27 in. less than usual. Mean Sea Temperature 42°·7, or about 2° warmer than last year.

February.—The mean temperature has been 3° above the average of the previous 14 years; being in fact the warmest February we have had here since 1869. The ● up to the 25th was remarkably small, representing but one-fifth of the usual monthly fall, but the last 3 days brought it up to within three-tenths of the ordinary amount. Mean Sea Temperature 42°·3, being 2° warmer than the average.

March.—The month on the whole has been comparatively mild, and with the exception of some ▲ and ✳ showers on 21st and 22nd, the weather has been very pleasant. The mean air temperature has been 4°·1 above the average of the previous 14 years, and the ● 0·31 in. short of the usual quantity falling here. Consequent on the mildness of the season for several weeks past, vegetation is about a month in advance in the NE district. Mean Sea Temperature 43°·8, or 2°·3 warmer than the preceding 5 years' average.

SOUTH BOURNE, *January.*—During the extraordinary high barometric readings there was only slight ≡ on the 18th and 19th. There was, however, but little bright sunshine registered. The warmth of the earth's surface under the stand on the 18th and 19th as compared with the temperature at 4 ft. was very marked, the grass being quite unfrozen for hours, whilst from 2° to 3° of frost were recorded by the instruments in the stand, the top of which was also frozen hard.

March.—A very fine month, and, excepting a NW gale on the 26th and strong winds on the 1st, 2nd and 22nd, unusually calm weather prevailed throughout, actual calms being registered on 5 days and wind force 1 on 10 days, a very unusual occurrence in March: not one E wind recorded!

STAPLETON, *February.*—The hedgerows are showing signs of leaf, and a standard rose tree has burst into leaf, being a month earlier than last year. Farmers have begun to sow oats, but the more cautious are waiting till the weather is more settled.

SWANAGE, *January.*—5th—Found several ripe wild strawberries.

February.—7th—Pear trees, peaches and flowering currants in full bloom.

VENTNOR, *January.*—Owing to the mildness of the season many wild flowers are in bloom, and many shrubs, &c., are budding, notably elder and honeysuckle.

TEMPERATURE OF THE SOIL AT 9 A.M.

Station.	Depth below the Surface.	January.			February.			March.		
		Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.
		°	°	°	°	°	°	°	°	°
Aspley Guise	3 ins.	38·8	43·8	34·0	39·2	47·1	33·5	43·3	48·0	37·0
Aspley Guise	6 ins.	39·0	43·0	34·8	39·4	46·5	33·9	43·5	47·5	38·3
Babbacombe	6 ,,	43·2	45·6	38·3	43·9	47·4	40·6	47·1	49·9	42·4
Croydon.....	6 ,,	39·4	44·2	33·9	39·8	47·2	33·8	43·6	48·0	38·2
Marlborough	6 ,,	39·2	43·3	34·1	40·0	46·9	34·8	44·0	48·5	38·0
Alnwick.....	1 ft.	40·8	43·0	38·0	41·2	45·5	37·5	44·3	47·5	40·0
Aspley Guise	1 ,,	39·3	42·7	35·2	39·7	45·7	35·0	44·0	47·2	39·7
Babbacombe.....	1 ,,	43·8	45·5	41·0	44·6	47·7	41·9	48·0	49·9	44·5
Cardiff	1 ,,	43·2	45·0	41·0	43·8	46·1	40·4	45·9	50·4	43·7
Croydon.....	1 ,,	40·2	43·5	35·4	40·4	46·0	35·4	44·7	48·0	41·2
Cullompton	1 ,,	42 0	44·3	37·8	42·6	46·5	38·0	46·0	48·4	42·3
Harestock.....	1 ,,	41·5	44·5	37·5	41·8	46·5	38·4	44·9	47·6	41·9
Hodsock	1 ,,	39·0	42·1	37·0	40·5	44·2	37·5	43·5	45·7	41·2
Isleworth	1 ,,	39·8	42·3	35·3	40·4	45·9	35·7	45·0	47·6	40·1
Lowestoft.....	1 ,,	40·0	42·6	37·8	40·1	43 7	36·7	43·7	46·8	40·6
Marlborough	1 ,,	40·1	42·9	36·1	40·8	45·4	36·4	45·3	48·0	41·1
Norwood	1 ,,	39·6	42·1	35·3	39·9	45·1	35·2	44·4	47·1	41·3
Oakamoor	1 ,,	—	—	—	40·0	42·4	37·9	41·1	43·4	36·7
Regent's Park	1 ,,	40·1	43·5	35·2	40·3	45·6	35·5	43·8	47·0	40·0
St. Leonard's	1 ,,	41·8	45·0	37·9	42·0	46·2	38·0	46·2	48·6	41·5
Southampton	1 ,,	41·8	44·8	37·4	42·3	46·6	38·1	46·3	48·9	42·1
Strelley.....	1 ,,	39·0	42·2	36·5	40·0	44·3	36·2	42·4	46·2	39·2
Worthing	1 ,,	41·4	44·3	36·7	42·0	46·4	38·3	46·6	48·9	42·6
Marlborough.....	1½ ft.	40·8	42·5	38·1	41·3	45·0	38·3	45·7	47·2	43·0
Alnwick	2 ft.	44·3	45·0	43·0	44·5	46·5	43·0	46·8	48·5	45·0
Aspley Guise	2 ,,	40·8	42·2	38·2	40·9	44·7	37·9	45·1	46·5	42·9
Harestock	2 ,,	42·3	43·8	39·6	41·8	44·5	40·2	44·8	45·9	42·9
Isleworth	2 ,,	41·5	43·1	38·8	41·4	44·9	38·6	45·5	47·0	43·1
Marlborough.....	2 ,,	41·7	42·9	39·9	41·8	44·5	40·0	45·7	46·9	43·7
Oakamoor.....	2 ,,	—	—	—	40·4	44·6	37·1	41·1	44·0	37·1
Aspley Guise	4 ft.	42·4	43·0	41·6	42·0	43·6	40·9	44·8	45·7	43·8
Cardiff	4 ,,	46·2	46·6	45·5	45·3	45·6	45·0	46·4	46·8	45·8
Regent's Park	4 ,,	42·5	43·0	41·5	41·4	42·8	40·5	43·8	44·5	43·0

DURATION OF BRIGHT SUNSHINE.

Station.	Total amount.			Greatest amount on one day.			No. of days on which no Sunshine was registered.		
	Jan.	Feb.	March.	Jan.	Feb.	March.	Jan.	Feb.	March.
	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.			
Aspley Guise..	40	47	143	6·8	7·9	10·0	18	11	3
Blackpool	26	36	91	6·9	5·8	9·3	13	15	6
Buxton	35	35	92	5·8	6·5	8·8	15	14	6
Churchstoke ..	41	50	132	5·5	6·9	10·1	11	12	2
Croydon	30	48	156	6·0	7·3	9·9	17	10	3
Cullompton ..	28	54	145	5·6	8·7	10·4	19	7	3
Hillington ..	32	38	110	4·4	7·3	7·9	17	12	1
Hodsock	40	48	118	5·2	8·2	9·6	14	11	3
Llandudno ..	38	42	90	7·0	7·3	10·8	14	12	10
Marlborough	29	49	163	6·1	7·3	10·1	20	7	1
South Bourne	38	77	161	6·8	8·7	10·5	19	5	6
Strelley	34	44	121	6·3	8·6	10·4	18	12	3

Abstract of Meteorological Observations for the Month of JANUARY, 1882.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of						Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.										Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.		N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.		Amnt.	Date.															
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.																
Alnwick	30·176	40·6	40·3	40·5	37·0	46·1	31·0	4	53·2	24	39·0	38·7	87	87	5·5	4·8	·80	·23	2	12	3	4	8	1	1	1	0	3	5	10	21	13	3	6
Cramlington	·207	39·3	39·2	39·3	34·6	45·4	28·2	27	52·5	6	38·1	37·9	90	90	6·3	4·7	·84	·20	2	14	1	4	7	1	0	1	2	1	2	19	20	13	4
Scaleby	·215	41·3	42·2	41·8	37·6	45·3	30·0	4	52·0	5	39·8	40·4	88	86	8·4	8·5	2·38	·54	4	18	0	1	20	7	1	3	1	6	6	33	5	0	7
Scarborough	·251	40·7	41·0	40·9	37·5	44·4	31·0	27	52·1	5	39·6	39·9	91	91	7·2	7·1	1·60	·83	29	10	0	3	16	1	0	2	2	1	10	28	18	1	0
Wakefield	·281	40·8	41·6	41·2	36·7	46·5	28·4	17	54·0	6	39·2	39·8	87	86	7·2	7·6	2·96	1·54	29	14	1	1	16	1	1	2	9	4	8	17	20	1	0
Buxton	·329	37·9	38·0	38·0	33·3	43·1	28·0	19, 26, 27	50·0	3	37·1	36·9	93	90	8·6	8·2	4·69	·80	2	12	5	0	20	0	0	3	0	5	0	20	7	25	2
Cheadle	·319	37·7	38·4	38·1	34·3	43·6	28·3	18	51·3	5	36·9	37·4	93	91	8·2	6·8	2·71	·68	28	12	3	1	16	3	2	1	3	7	12	15	18	3	1
Llandudno ..	·277	43·3	43·8	43·6	39·8	49·6	33·1	29	55·5	14	41·6	42·1	87	87	7·6	6·3	3·19	·69	29	15	2	3	12	1	0	0	6	0	1	14	40	1	0
Leaton	·322	39·1	40·0	39·6	34·4	45·1	23·0	18	52·0	5, 6	38·0	38·8	91	90	..	..	2·62	·97	28	13	0	..	..	..	1	2	1	7	8	8	22	6	7
Churchstoke..	·329	38·8	39·3	39·1	34·1	45·4	27·4	18	52·3	6	37·8	38·0	92	89	7·2	7·6	3·06	·93	28	9	1	0	15	2	1	5	3	10	5	12	11	5	10
Cheltenham	·346	40·7	40·8	40·8	35·4	45·7	25·0	25	52·5	28	39·4	39·5	89	89	7·6	6·7	2·12	·73	8	11	0	3	17	0	1	2	0	5	17	11	5	2	19
Carmarthen ..	·324	41·8	41·4	41·6	36·9	46·8	26·5	19	53·4	11	41·1	40·5	94	92	8·3	8·5	5·47	1·40	8	18	0	2	22	1	3	0	6	6	4	9	10	0	24
Dartmoor	·384	39·0	38·2	38·6	34·0	43·0	21·0	19	50·0	12	38·7	37·6	97	94	9·2	9·4	7·43	1·82	8	14	1	0	27	1	1	10	5	9	0	23	2	7	5
Babbacombe..	·373	43·2	42·4	42·8	39·2	47·2	27·2	24	54·7	27	41·8	41·1	89	89	8·7	7·6	1·73	·40	2	13	0	2	20	6	2	5	11	6	11	17	6	3	1
Downside	·363	39·7	38·7	39·2	35·2	43·8	29·5	19, 22	50·9	6, 28	38·8	37·9	92	93	8·3	7·6	2·40	·75	8	11	0	0	18	1	6	6	3	10	7	23	2	5	0
Marlborough	·376	38·9	38·9	38·9	34·9	44·3	24·4	25	51·4	11	38·2	38·0	94	92	8·6	6·7	1·67	·48	8	11	1	3	19	0	0	0	1	3	8	8	0	1	41
Strathfield T.	·386	39·5	39·3	39·4	35·0	45·4	24·0	25	53·2	6	38·3	38·3	90	92	8·3	7·2	1·41	·44	2	10	0	2	20	0	6	3	1	5	10	19	6	8	4
Norwood	·383	39·6	39·7	39·7	35·4	44·8	25·2	25	53·0	6	38·4	38·7	90	92	8·5	6·8	1·27	·44	8	11	0	3	19	3	1	0	4	4	9	9	18	2	15
Croydon	·385	39·5	39·9	39·7	35·9	45·0	26·9	25	53·5	11	38·4	38·7	91	90	8·6	6·6	1·24	·38	8	10	0	3	20	1	1	2	4	5	9	20	9	2	10
South Bourne	·391	41·2	41·8	41·5	38·1	45·9	26·7	24	53·0	11	40·0	40·3	90	88	8·4	7·4	1·03	·38	2	10	0	2	20	1	7	9	5	2	7	9	13	5	5
Hillington ..	·329	38·4	38·7	38·6	34·8	44·2	28·1	21	52·4	6	37·7	37·9	94	93	9·1	8·0	1·70	·62	8	10	0	1	22	1	0	0	5	2	15	33	7	0	0
Lowestoft	·340	39·4	40·3	39·9	36·0	44·3	30·0	21	53·0	6	38·6	39·2	93	91	8·3	7·4	1·38	·69	8	9	0	3	22	1	0	0	3	4	6	16	24	9	0
Dublin	·242	43·6	44·5	44·1	40·4	49·0	34·1	1	56·5	14	41·5	42·4	84	84	6·9	5·8	1·48	·38	2	17	2	3	13	3	0	2	1	7	15	15	18	1	3
Killarney	30·247	45·6	45·8	45·7	40·9	51·1	26·7	30	56·1	15	43·7	44·1	86	87	7·4	7·2	5·40	1·69	27	16	2	1	13	4	0	2	2	4	11	16	14	4	9
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Alnwick	●ψ	●	..	●	●	..	●✱ψ	..	●	●	●≡	≡	≡	≡	..	..	..	≡	≡	..	..	..	..	..	ψ	..	●≡	ψ	●▲	●✱▲	●✱
Cramlington	●	●	▲	●≡	●	●	●✱	●≡	≡	●	●≡	≡	●	●≡	..	≡	..	..	..	..	..	..	..	..	..	≡	●	ψ	●▲	●	..
Scaleby	●	●	●	●	●	●	●	●	..	●	●	●	●	●	..	..	..	●	..	..	..	..	●	..	..	..	●	ψ	●	..	●
Scarborough	●	●	..	●	●	●	..	●	..	..	..	≡	..	●≡	≡	≡	≡	..	..	≡	≡	..	..	..	≡	≡	≡	●	●	●	..
Wakefield ..	●	●ψ	●	●	●	●	●	●	..	..	ψ	≡ψ	..	●	..	●≡	..	..	..	..	..	..	..	..	..	..	●	●	●✱	●	..
Buxton ...	●✱ψ	●	●▲	●	●	●	✱	●	..	●♛	≡	≡	≡	●≡	≡	≡	≡	..	≡	≡	≡	..	..	..	..	..	●≡	●	●✱	✱	✱
Cheadle	●✱	●<	●✱	●ψ	ψ	●	..	●	..	●	..	..	●	●	≡	..	≡	≡	≡	≡	..	..	..	..	..	≡	●	●▲	●✱	..	..
Llandudno ..	●✱	●	●	●	●	●	●	●	..	●	..	●	..	.	..	≡	..	..	..	..	..	..	..	..	..	..	●	●	●✱	●≡	●
Leaton ...	●	●	●	●	●	●	●	●	..	..	≡	●≡	..	●	≡	..	..	..	..	..	..	..	..	..	..	..	..	●	●	●	..
Churchstoke	..	●	●	●	..	●	●	●	..	..	..	..	..	..	≡	≡	≡	≡	..	..	..	..	..	..	..	..	●	●	●⋆	..	..
Cheltenham	●	●	..	●	..	●	..	●	..	..	●	..	..	..	..	..	≡	●≡	≡	..	..	..	..	..	..	..	●	●	●	●	..
Carmarthen	●	●	●	●	●	●	●ψ	●	●	●	●	●	●	●	..	..	..	≡	..	..	..	≡	..	..	..	..	●	●	●	●	..
Dartmoor ..	●	●	●	●✱▲≡	●≡	●≡	..	●	..	●≡	●≡	..	●≡	≡	≡	≡	≡	≡	≡	≡	≡	..	..	..	..	●	≡	●≡	●≡	●≡	..
Babbacombe	●ψ	●	●	●	●	●	●	●▲	..	●	..	≡	..	..	..	..	..	..	≡	..	..	..	..	..	..	●	..	●○ψ	●	●	..
Downside ..	●	●	..	●	●	●	●	●	..	●	≡	●≡	..	..	..	..	≡	≡	≡	●	..	≡	..	..	≡	≡	●	..	..	≡	..
Marlborough	●	●	..	●	●	●	●	●	..	●	≡	≡	✱	..	..	..	≡	≡	≡	..	..	≡	≡	≡	≡	●≡	≡	●	●	≡	..
Strathfield T.	●ψ	●	..	●	●	●	..	●	..	●	..	≡	..	..	..	●	≡	≡	●≡	≡	≡	≡	≡	..	≡	..	..	ψ	●	≡	≡
Norwood	●≡ψ	●	..	●ψ	..	●	..	●○	..	●	●	≡	..	≡	●≡	≡	≡	●≡	≡	≡	≡	≡	≡	≡	≡	●≡	≡	ψ	●	≡	..
Croydon	●≡ψ	●≡ψ	..	●≡ψ	..	●	..	●	≡	●	●	≡	..	..	..	≡	≡	●≡	≡	≡	≡	≡	≡	≡	●≡	..	..	ψ	●	≡	..
South Bourne	●	●	●	●	●	●	..	●	..	●	●	..	..	..	..	..	..	≡	≡	..	..	..	..	..	..	..	..	..	●	..	..
Hillington ..	●	●	..	●	●ψ	●	..	●	..	..	..	≡	..	●	..	..	≡	≡	≡	..	..	..	..	..	..	..	..	●	●	..	..
Lowestoft ..	●	●	..	●	●	●	..	●	..	..	..	●≡	..	..	..	..	≡	≡	≡	≡	..	..	..	..	..	..	..	●	●	..	..
Dublin	●✱ψ	●▲	..	●○	●	●	●ψ	●	..	..	●	●	●	..	..	≡	≡	≡	..	..	●	..	..	..	..	●	●	●✱ψ	●▲	●	●
Killarney ..	●✱	●	●✱▲	●▲	●≡	●▲	●▲≡	●≡	≡	..	●≡	●≡	●≡	●	≡	≡	..	≡	≡	..	..	..	..	..	≡	●	●	≡	..	●	●

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✱ snow; ▲ hail; ≡ fog; ⊼ thunderstorm; ⊤ thunder; < lightning; ○ solar halo; ψ lunar halo; ♛ aurora.

Abstract of Meteorological Observations for the Month of MARCH, 1882.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of					Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.														
Alnwick.....	29·814	44·3	41·9	43·1	37·1	50·7	28·1	7	57·6	13	41·8	40·2	81	86	6·7	4·1	1·58	·50	1	17	4	5	10	0	2	1	3	2	4	19	18	8	5
Cramlington	·824	44·7	41·6	43·1	35·6	51·9	27·0	23	62·7	16	42·1	39·7	80	85	6·6	4·0	1·02	·48	1	14	4	4	6	1	4	3	2	1	2	12	27	10	1
Scaleby.....	·848	44·4	42·4	43·4	37·3	50·9	29·3	23	58·2	13	42·2	40·5	83	85	8·0	5·1	2·54	·46	24	19	1	3	12	8	3	5	5	2	1	29	12	1	4
Scarborough..	·878	45·0	44·3	44·6	39·4	51·5	31·6	22	66·3	16	42·6	42·0	82	82	7·1	3·5	1·52	·35	24	12	2	4	8	2	6	1	1	1	5	22	20	6	0
Wakefield....	·917	45·4	44·0	44·7	38·0	52·5	27·0	23	63·8	18	42·7	41·5	80	81	7·6	4·5	1·85	·64	25	14	0	3	6	2	3	1	1	2	11	19	24	1	0
Buxton	·969	42·9	40·1	41·5	34·8	49·3	23·0	23	60·2	18	41·0	39·2	85	92	7·5	4·3	3·66	·70	2	15	6	4	7	0	1	1	0	0	0	15	24	19	2
Cheadle.....	·967	42·8	42·1	42·4	36·2	50·8	27·5	22	61·2	18	40·9	40·5	85	87	6·9	4·4	2·07	·76	25	13	1	6	10	6	5	0	3	0	6	21	17	10	0
Llandudno ..	·941	47·2	45·6	46·4	41·3	..	34·0	21	56·3	10	44·4	43·5	80	84	7·6	5·1	2·62	·58	25	17	1	2	11	3	1	4	1	0	1	15	35	5	0
Leaton	·986	44·9	42·0	43·4	35·2	52·5	26·0	4, 17	62·1	18	42·3	40·3	81	87	7·4	4·1	1·37	·62	25	16	2	6	11	..	3	1	1	1	4	12	32	8	0
Churchstoke..	29·994	44·5	42·1	43·3	36·4	52·2	27·8	22	62·2	18	41·9	40·2	80	85	7·3	4·7	2·00	·51	25	11	2	3	10	2	0	0	0	3	1	13	21	12	12
Cheltenham...	30·011	45·3	43·5	44·4	35·9	52·8	25·0	23	62·0	18	42·3	41·7	78	86	7·2	5·9	1·52	·39	25	13	2	1	9	2	1	0	1	1	3	24	9	13	10
Carmarthen ..	·014	45·6	44·2	44·9	39·1	51·4	28·5	4	60·7	17	43·7	43·0	86	91	7·8	5·9	3·32	·58	25	19	1	2	13	0	4	0	2	0	1	18	12	6	19
Dartmoor ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Babbacombe..	·074	48·3	44·3	46·3	39·5	54·2	32·2	22	63·5	18	45·2	42·8	78	88	5·9	4·8	1·16	·17	11	17	1	6	8	5	4	4	0	0	2	23	13	13	3
Downside	·041	45·7	43·2	44·4	38·1	52·4	29·3	23	63·4	17	43·7	42·2	85	92	4·9	4·7	3·13	·88	25	20	1	12	8	7	3	3	0	2	5	33	10	4	2
Marlborough	·048	45·1	42·7	43·9	36·3	53·6	26·2	23	64·1	18	42·7	41·4	82	89	5·6	5·2	1·86	·55	25	15	1	9	12	1	2	0	1	0	6	12	10	4	27
Strathfield T.	·043	46·1	44·1	45·1	36·3	55·6	28·3	23	64·5	18	43·5	42·6	81	88	6·6	5·2	·99	·50	25	9	3	6	13	0	4	1	2	0	3	26	18	4	4
Norwood	·035	46·1	44·3	45·2	37·9	54·9	27·0	4	64·8	18	43·2	42·4	79	85	5·3	4·4	·86	·47	25	12	3	10	11	3	5	1	0	1	6	19	17	4	9
Croydon	·038	46·0	44·4	45·2	38·2	54·6	28·2	23	64·0	18	43·1	42·3	79	84	5·6	3·5	·84	·45	25	11	3	10	7	2	1	1	1	1	6	28	13	4	7
South Bourne	30·063	46·2	44·8	45·5	38·8	51·8	29·2	23	57·8	15	43·7	43·1	81	87	4·9	4·6	·61	·15	25, 31	10	1	9	9	1	9	1	0	1	3	17	14	12	5
Hillington.....	29·960	44·3	42·1	43·2	35·5	53·5	28·1	17	62·4	18	42·3	40·8	84	89	8·2	5·2	1·62	1·26	25	10	3	0	11	0	4	2	1	2	2	31	11	9	0
Lowestoft	·966	44·6	43·8	44·2	37·5	52·5	28·0	18	62·0	16	42·9	41·9	87	85	5·8	4·3	1·09	·70	25	10	2	8	8	0	2	0	1	0	1	16	26	14	2
Dublin	29·935	46·9	46·0	46·4	41·2	52·7	31·9	21, 22	60·6	7	43·8	43·4	78	81	6·6	5·3	2·26	·61	25	17	3	3	6	5	2	2	1	1	2	15	31	7	1
Killarney	...	48·1	45·4	46·8	41·2	52·9	29·8	3	58·0	8	46·2	44·3	86	91	7·9	..	3·98	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..	..
Columns	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

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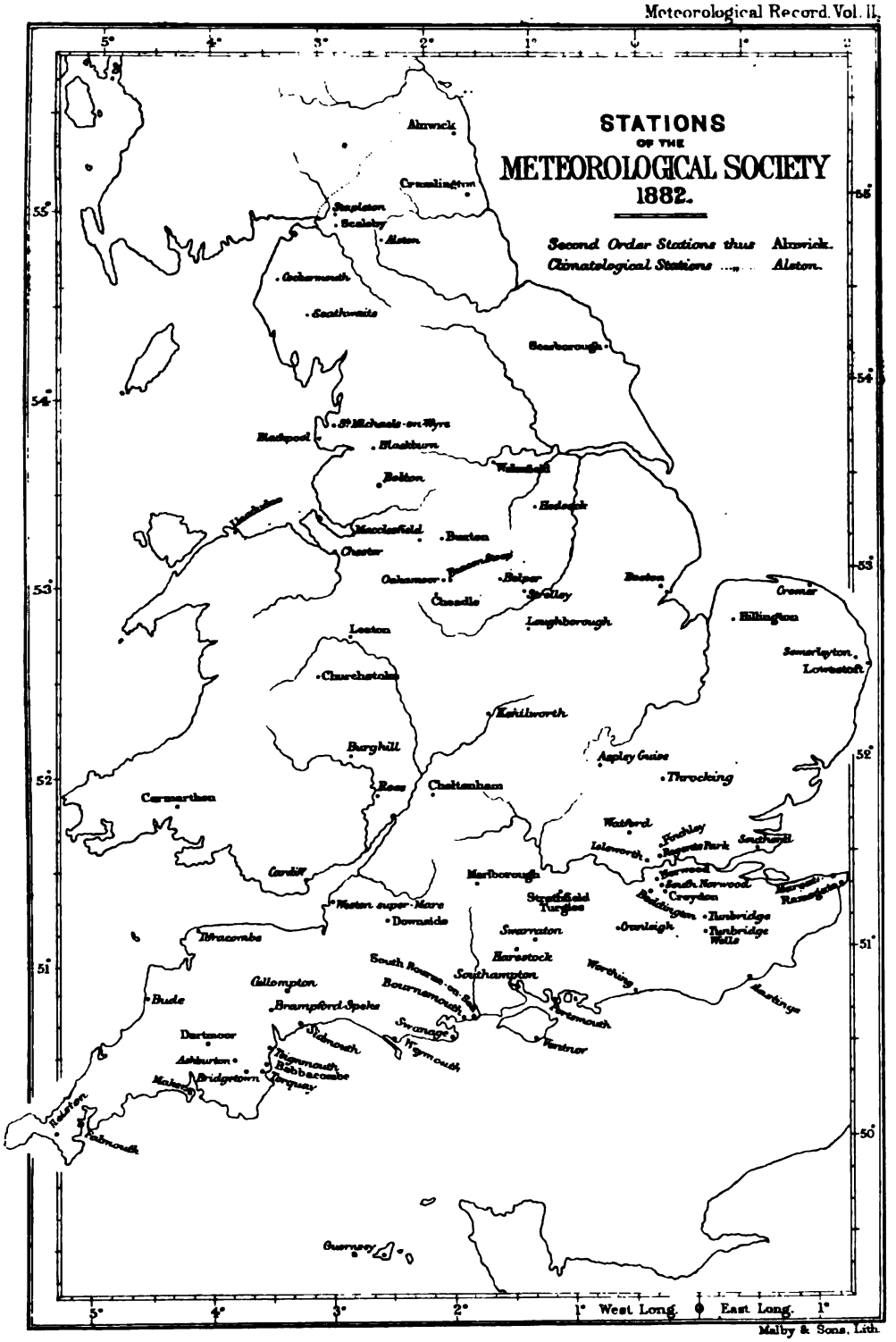
Alnwick ..	●	●	●≡	●ψ	..	●	●✱	●	●	..	..	..	..	..	..	..	..	..	●	●	●✱	●✱▲≡	●✱▲	●ψ	●	ψ	..	ψ	ψ	●	●
Cramlington	●	●	●	..	●	●	✱	..	..	..	..	..	..	..	..	..	..	≡	..	●	●▲	●✱▲	●✱▲	●	●	..	..	●	..	●✱	●
Scaleby	●	●	..	..	●	●	●	..	●	●	..	..	..	..	..	..	..	..	●	●	●✱	..	●	●	●	●	●	●	●▲	●	●
Scarborough	●	●	●	≡	●	..	..	..	..	..	..	..	..	..	..	..	..	..	..	●	●✱▲≮	●✱▲	●	●	●	..	..	..	●	●	≡
Wakefield ..	●	●	..	●	●	●	●	●	..	..	..	..	..	..	..	..	..	..	..	●	..	..	●	●	●	..	..	..	●	●	●
Buxton	●	●	..	✱	●▲	●✱▲	●	●	..	..	..	..	..	●	..	..	..	..	..	●	●✱	✱	●	●▲	●✱▲	✱▲	●	●	●▲	▲	●
Cheadle	●	●	..	..	●	..	..	●	..	..	..	..	..	..	..	..	..	..	..	●	●✱▲	..	●	●	●	●▲	..	..	●	●	●
Llandudno ..	●	●	●	..	●	..	..	●▲	▲	..	..	..	..	..	..	..	..	..	●	●	●✱▲	..	●	●	●	●▲	●	●	●	●	●
Leaton	●	●	.	●	●	..	..	≡	●	..	●	..	..	..	..	..	≡	●	..	●	●✱	●	..	●	●	●✱	..	●	●	..	●
Churchstoke	●	●	..	..	●	..	..	..	●	..	..	..	..	..	..	..	≡	≡	..	●	●✱▲	..	..	●	●	●✱▲	..	●	..	..	●≮
Cheltenham	●	●	●	..	●	..	..	..	..	●	●	..	..	..	..	≡	≡	≡	..	●	●✱	✱	..	●	●	●	..	..	..	●ψ	●
Carmarthen	●	●	..	..	●	●	●	●	●	●	●	..	≡	≡	..	≡	≡	..	●	●	●✱▲	▲	●	●	●	..	..	●	●	●	●
Dartmoor ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Babbacombe	●▲	●▲	..	..	●	●○ψ	●✱	●○	●	..	●≡	..	..	≡	..	..	..	..	..	●○	●✱▲	..	●	..	●	●	ψ	●	●	●	●▲
Downside ..	●▲	●▲ψ	..	●	●	●	●≡	●	●	●	●	..	≡	..	..	..	..	..	≡	●	●✱▲	..	●	●	●	●	●	●	●	ψ	●
Marlborough	●	●▲ψ	..	≡	●	●	..	●	..	●	●	≡	..	≡	..	≡	≡	≡	≡	●	●✱	..	●	..	●	..	..	●	●	..	●
Strathfield T.	●	●▲	..	≡	●	..	..	..	..	..	●	≡	..	≡	≡	..	≡	..	≡	..	●✱	..	●	●	●✱	✱▲	..	..	●	≮	..
Norwood	●	●▲	..	≡	●	○	●	○	..	..	●≡	≡	≡	≡	≡	≡	≡	≡	≡	..	●✱	●✱	●≡	●	●	✱	..	..	●	●	≡
Croydon	●▲	..	..	≡	●	..	●	..	..	●	●	≡	≡	≡	≡	≡	≡	≡	≡	..	●✱	●✱	●≡	●	●	✱▲	≡	..	●	..	..
South Bourne	●	..	..	..	●	..	●	●	..	●	●	..	..	..	..	..	..	..	≡	..	●✱▲	..	●	..	●	..	..	..	..	..	●
Hillington ..	●	ψ	▲	≡	..	..	●	..	..	..	.	≡	..	..	..	..	≡	..	≡	●	●✱	●✱▲	●	●	●	●✱▲	..	..	..	●	..
Lowestoft ..	●	..	..	●	●	..	..	..	..	..	●	..	..	..	..	..	≡	≡	..	..	●✱	●✱▲	●	●	●ψ	●	..	..	..	..	..
Dublin	●	●✱	≡▲ψ	..	●	●	..	●	..	..	●○	..	..	..	..	..	≡	○	●	●	●✱▲	..	●	●	●✱	●▲	●ψ	●	●▲	●▲	●
Killarney ..	●▲	●▲	●≡ψ	●	●	●	●	●	●	—	—	—	—	—	—	—	—	—	●	●	●	..	●	..	●	●▲	●	●	..	●▲	●≡

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✱ snow; ▲ hail; ≡ fog; ⟀ thunderstorm; ⊤ thunder; ≮ lightning; ○ solar halo; ψ lunar halo; ψ aurora.

Abstract of Climatological Observations for the Quarter ending MARCH 31st, 1882.

Station.	JANUARY. Means at 9 a.m. Temperature.	Humidity.	Temperature. Means. Min.	Max.	Range.	Mean.	Extremes in Month. Min.	Max.	Range.	Mean Amount of Cloud at 9 a.m.	Rain. Amount.	No. of Days.	FEBRUARY. Means at 9 a.m. Temperature.	Humidity.	Temperature. Means. Min.	Max.	Range.	Mean.	Extremes in Month. Min.	Max.	Range.	Mean Amount of Cloud at 9 a.m.	Rain. Amount.	No. of Days.	MARCH. Means at 9 a.m. Temperature.	Humidity.	Temperature. Means. Min.	Max.	Range.	Mean.	Extremes in Month. Min.	Max.	Range.	Mean Amount of Cloud at 9 a.m.	Rain. Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.	
Ventnor	42·7	88	39·6	46·6	7·0	43·1	29·3	53·1	23·8	8·1	1·57	10	44·0	85	40·8	49·1	8·3	45·0	35·3	54·5	19·2	6·8	1·22	9	48·5	78	41·9	53·3	11·4	47·6	31·8	59·6	27·8	4·7	·85	13
Worthing	41·1	91	36·,	44·9	8·0	40·9	26·6	50·2	23·6	7·1	1·51	9	42·9	88	38·8	47·7	8·9	43·3	30·0	52·8	22·8	7·0	1·43	11	47·3	82	39·3	53·1	13·8	46·2	30·7	60·5	29·8	5·0	1·01	9
Hastings	41·3	92	38·1	44·7	6·6	41·4	29·2	50·1	20·9	8·4	·99	9	42·6	89	39·1	46·4	7·3	42·8	31·7	53·4	21·7	7·4	1·18	9	47·0	83	41·2	51·4	10·2	46·3	30·3	57·6	27·3	5·1	1·40	14
Margate	40·2	93	36·4	44·9	8·5	40·7	28·6	55·3	26·7	9·1	·72	8	41·6	88	37·4	46·6	9·2	42·0	28·8	54·5	25·7	7·5	·91	10	46·5	81	40·2	52·8	12·6	46·5	32·5	62·0	29·5	6·1	1·20	11
Southend	39·6	95	36·4	43·6	7·2	40·0	30·0	51·7	21·7	8·0	·84	7	41·3	94	37·2	47·2	10·0	42·2	31·0	54·3	23·3	7·5	·75	7	46·3	90	39·7	53·5	13·8	46·6	29·9	61·9	32·0	4·7	·98	8
Harestock	39·6	86	35·0	44·4	9·4	39·7	24·0	52·1	28·1	8·6	1·60	10	41·1	83	36·5	47·0	10·5	41·8	25·3	54·6	29·3	8·2	1·78	10	45·7	75	37·1	53·1	16·0	45·1	27·8	62·9	35·1	5·1	·65	15
Swarraton	39·1	95	34·5	44·1	9·6	39·3	23·3	51·6	28·3	8·5	1·78	9	40·3	91	36·1	47·2	11·1	41·7	23·9	54·2	30·3	7·9	2·20	9	44·4	84	36·4	53·2	16·8	44·8	27·5	63·4	35·9	5·0	·85	11
Strathfield Turg	39·5	90	35·0	45·4	10·4	40·2	24·0	53·2	29·2	8·3	1·41	10	41·1	88	36·2	48·8	12·6	42·5	22·0	57·4	35·4	7·9	1·59	12	46·1	81	36·3	55·6	19·3	46·0	28·3	64·5	36·2	6·6	·99	9
Cranleigh	39·6	94	35·3	44·5	9·2	39·9	26·1	51·6	25·5	8·7	1·63	12	41·5	91	37·0	47·6	10·6	42·3	28·1	55·3	27·2	8·0	2·21	12	45·8	84	38·7	54·0	15·3	46·4	28·1	63·3	35·2	5·5	1·04	13
Tunb. Wells ..	38·4	96	34·5	42·7	8·2	38·6	24·2	50·0	25·8	8·4	1·82	11	40·4	93	36·1	45·9	9·8	41·0	26·5	54·0	27·5	8·4	2·13	13	45·4	89	38·2	52·5	14·3	45·4	27·8	62·9	35·1	6·2	1·43	14
Tunbridge	38·9	93	34·6	44·3	9·7	39·5	23·6	52·0	29·4	8·3	1·30	7	41·0	90	36·4	47·6	11·2	42·0	22·6	56·3	33·7	7·9	1·81	9	46·2	82	38·4	54·5	16·1	46·4	29·1	65·5	36·4	4·9	1·05	9
Beddington....	39·0	92	34·6	44·6	10·0	39·6	22·3	54·6	32·3	7·8	1·14	10	40·5	91	35·9	47·3	11·4	41·6	22·1	57·5	35·4	8·0	1·42	7	45·8	84	36·8	55·1	18·3	46·0	25·1	64·7	39·6	4·2	·75	10
Croydon	39·5	91	35·9	45·0	9·1	40·5	26·9	53·5	26·6	8·6	1·24	10	40·9	88	37·3	47·9	10·6	42·6	24·3	56·0	31·7	8·6	1·75	9	46·0	79	38·2	54·6	16·4	46·4	28·2	64·0	35·8	5·6	·84	11
South Norwood.	39·6	94	35·3	44·8	9·5	40·1	26·8	52·7	25·9	8·4	·92	8	40·9	90	36·6	47·4	10·8	42·0	24·1	55·9	31·8	8·1	1·21	8	45·5	85	38·0	54·3	16·3	46·1	27·7	64·5	36·8	5·0	·64	8
Norwood	39·6	90	35·4	44·8	9·4	40·1	25·2	53·0	27·8	8·5	1·27	11	41·1	88	37·0	47·9	10·9	42·5	22·7	56·7	34·0	8·4	1·24	11	46·1	79	37·9	54·9	17·0	46·4	27·0	64·8	37·8	5·3	·86	12
Isleworth	39·4	93	34·4	45·0	10·6	39·7	22·2	53·0	30·8	8·3	1·26	9	41·0	90	36·1	47·9	11·8	42·0	24·0	57·2	33·2	7·3	1·53	10	45·0	84	37·4	55·4	18·0	46·4	27·7	65·2	37·5	5·4	1·23	10
Regent'sPark ..	40·0	91	35·9	44·4	8·5	40·2	25·0	53·0	28·0	..	1·22	8	41·1	88	36·8	47·4	10·6	42·1	25·8	56·7	30·9	..	1·31	9	44·7	85	38·6	54·3	15·7	46·4	27·0	63·4	36·4	..	1·29	10
Finchley	38·5	94	33·9	43·8	9·9	38·9	21·3	51·6	30·3	7·6	1·30	12	39·6	92	34·8	46·1	11·3	40·4	23·0	53·9	30·9	7·6	1·38	13	43·8	86	36·2	53·2	17·0	44·7	28·2	62·3	34·1	4·1	1·35	18
Watford	39·2	92	34·8	44·3	9·5	39·6	23·2	51·4	28·2	7·9	1·55	10	..	..	..	..	..	..	22·2	57·1	34·9	..	1·62	11	44·5	82	36·5	54·2	17·7	45·3	29·3	65·5	36·2	5·2	1·59	15
Throcking	37·9	96	34·5	43·5	9·0	39·0	27·9	50·4	22·5	8·1	1·34	12	38·5	94	34·6	45·2	10·6	39·9	24·9	53·4	28·5	8·5	1·81	11	43·7	86	36·9	53·7	16·8	45·3	25·2	65·3	40·1	4·6	1·14	11
Aspley Guise ..	39·6	93	35·6	44·4	8·8	40·0	28·5	51·1	22·6	7·6	1·31	10	40·2	91	35·6	46·7	11·1	41·2	23·0	54·2	31·2	8·1	1·48	10	46·4	80	36·7	53·6	16·9	45·1	27·2	63·4	36·2	5·3	1·16	9
Hillington	38·4	94	34·8	44·2	9·4	39·5	28·1	52·4	24·3	9·1	1·70	10	39·5	90	35·0	46·6	11·6	40·8	23·8	54·3	30·5	9·1	1·70	13	44·3	84	35·5	53·5	18·0	44·5	28·1	62·4	34·3	8·2	1·62	10
Cromer	38·7	94	..	..	..	..	..	..	..	7·1	1·86	7	39·8	89	..	..	..	..	..	..	..	7·6	1·66	7	45·5	82	..	..	..	..	..	..	..	4·8	1·07	7
Somerleyton ..	39·4	92	35·5	44·4	8·9	40·0	28·9	53·6	24·7	8·3	1·68	12	40·2	88	35·6	46·8	11·2	41·2	26·3	57·0	30·7	7·4	1·84	11	45·0	84	36·9	53·9	17·0	45·4	28·3	62·5	34·2	4·4	1·24	8
Lowestoft	39·4	93	36·0	44·3	8·3	40·2	30·0	53·0	23·0	8·3	1·38	9	40·7	88	36·7	46·2	9·5	41·4	29·2	52·8	23·6	7·5	1·64	8	44·6	87	37·5	52·5	15·0	45·0	28·0	62·0	34·0	5·8	1·09	10
Guernsey	43·5	91	41·0	47·7	6·7	44·4	32·3	54·3	22·0	8·2	1·51	11	44·1	91	41·1	49·6	8·5	45·3	32·3	54·9	22·6	6·3	1·89	10	48·2	86	43·3	53·5	10·2	48·4	35·8	59·9	24·1	5·6	1·83	17
Dublin	43·6	84	40·4	49·0	8·6	44·7	34·1	56·5	22·4	6·9	1·48	17	46·0	84	41·9	50·4	8·5	46·2	34·1	57·9	23·8	7·5	1·86	16	46·9	78	41·2	52·7	11·5	46·9	31·9	60·6	28·7	6·6	2·26	17
Killarney	45·6	86	40·9	51·1	10·2	46·0	26·7	56·1	29·4	7·4	5·40	16	46·3	86	41·1	51·2	10·1	46·2	29·4	55·9	26·5	8·3	4·34	18	48·1	86	41·2	52·9	11·7	47·0	29·8	58·0	28·2	—9	3·98	..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THE METEOROLOGICAL RECORD.

REMARKS

ON THE

WEATHER OVER ENGLAND

FOR THE QUARTER ENDING JUNE 30TH, 1882.

THE weather during the quarter was remarkable for the dull and wet April and June; the fine, bright and genial May; and the severe gale of April 29th in the South of England, which, occurring at such a critical time, did so much damage to fruit and other trees.

AIR TEMPERATURE was below the average.

In *April* the mean temperature (mean of maximum and minimum) was 47°·3, and varied from 50°·2 at Ventnor, 50°·0 at Hastings and Ilfracombe, 49°·8 at Teignmouth, 49°·7 at Worthing, 49°·5 at Falmouth, 49°·3 at Isleworth and Weymouth, 49°·2 at Southend and Weston-super-Mare, and 49°·1 at Bournemouth, to 41°·2 at Alston, 42°·8 at Cramlington, 43°·5 at Dartmoor, 43°·6 at Buxton, 43°·8 at Alnwick, 44°·3 at Stapleton, 44°·7 at Seathwaite, 45°·0 at Scaleby, and 45°·1 at Cheadle. The weather was mild for the greater part of the month, and very fine from the 1st to the 11th, but cold and ungenial from the 25th to the 30th. The maximum temperature occurred mostly on the 3rd, 6th, 20th and 21st. The highest readings were:—On the 3rd, 64°·5 at Swarraton; on the 6th, 65°·3 at Portsmouth; on the 8th, 65°·6 at Southampton; on the 20th, 66°·4 at Teignmouth, and 65°·8 at Norwood; and on the 21st, 67°·0 at Southend, 66°·8 at Hillington, 65°·7 at Wakefield, and 65°·4 at Isleworth. The minimum temperature took place generally on the 16th. The lowest readings were:—On the 9th, 18°·2 at Alston; on the 10th, 24°·8 at Alston, and 26°·0 at Buxton; and on the 16th, 18°·9 at Alston, 22°·9 at Cramlington, 24°·5 at Leaton, 25°·0 at Stapleton, 25°·3 at Cockermouth, 25°·8 at Hodsock, and 26°·1 at Churchstoke. The mean daily range of temperature was 14°·1.

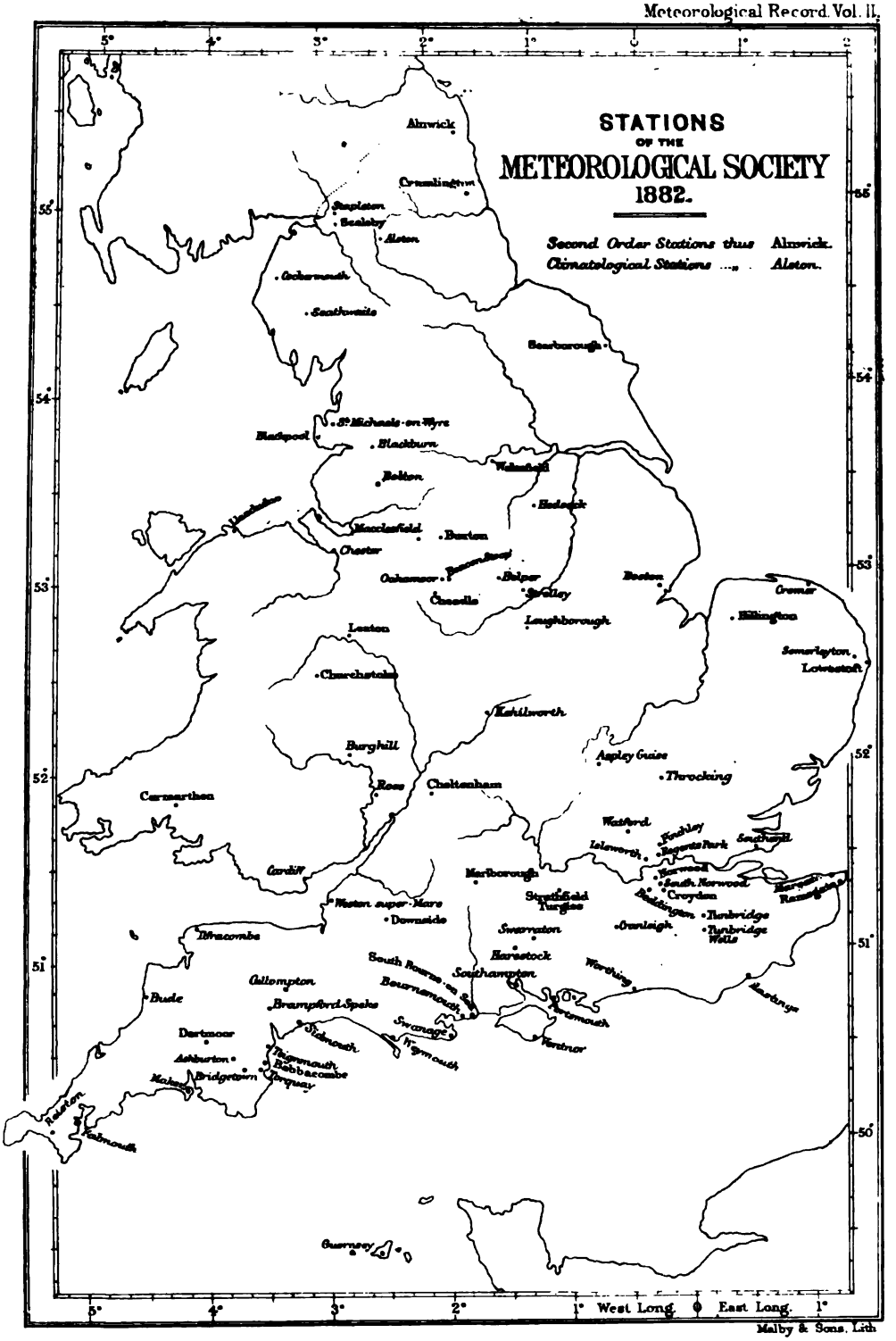
In *May* the mean temperature was 52°·6, and varied from 55°·0 at Regent's Park, Southend and Tunbridge, 54°·8 at Ventnor and Isleworth, 54°·6 at Norwood, 54°·5 at South Norwood and Strathfield Turgiss, 54°·4 at Hastings and Teignmouth, 54°·2 at Cardiff and Ilfracombe, to 46°·6 at Alston, 48°·9 at Buxton and Cramlington, 49°·7 at Scarborough, 49°·9 at Alnwick and Blackpool, 50°·2 at Stapleton, 50°·3 at Leaton, 50°·4 at Churchstoke, 50°·8 at Cheadle, and 51°·0 at St. Michael's-on-Wyre. The weather was remarkably fine and bright, especially from the 10th to the 20th. Temperature was above the average except from the 13th to the 20th. The maximum temperature occurred on various dates, chiefly on the 22nd, 29th and 30th. The highest readings were:—On the 18th, 75°·5 at Scaleby, and 78°·5 at Stapleton; on the 19th, 75°·2 at Seathwaite; on the 22nd, 78°·6 at Tunbridge, 78°·3 at Cockermouth, 72°·8 at Norwood, and 72°·5 at

Abstract of Climatological Observations for the Quarter ending MARCH 31st, 1882.

Station.	JANUARY. Means at 9 a.m. Temperature.	Humidity.	Temperature. Means. Min.	Max.	Range.	Mean.	Extremes in Month. Min.	Max.	Range.	Mean Amount of Cloud at 9 a.m.	Rain. Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Ventnor	42·7	88	39·6	46·6	7·0	43·1	29·3	53·1	23·8	8·1	1·57	10
Worthing	41·1	91	36·1	44·9	8·0	40·9	26·6	50·2	23·6	7·1	1·51	9
Hastings	41·3	92	38·1	44·7	6·6	41·4	29·2	50·1	20·9	8·4	·99	9
Margate	40·2	93	36·4	44·9	8·5	40·7	28·6	55·3	26·7	9·1	·72	8
Southend	39·6	95	36·4	43·6	7·2	40·0	30·0	51·7	21·7	8·0	·84	7
Harestock	39·6	86	35·0	44·4	9·4	39·7	24·0	52·1	28·1	8·6	1·60	10
Swarraton	39·1	95	34·5	44·1	9·6	39·3	23·3	51·6	28·3	8·5	1·78	9
Strathfield Turg	39·5	90	35·0	45·4	10·4	40·2	24·0	53·2	29·2	8·3	1·41	10
Cranleigh	39·6	94	35·3	44·5	9·2	39·9	26·1	51·6	25·5	8·7	1·63	12
Tunb. Wells ..	38·4	96	34·5	42·7	8·2	38·6	24·2	50·0	25·8	8·4	1·82	11
Tunbridge	38·9	93	34·6	44·3	9·7	39·5	23·6	52·0	29·4	8·3	1·30	7
Beddington....	39·0	92	34·6	44·6	10·0	39·6	22·3	54·6	32·3	7·8	1·14	10
Croydon	39·5	91	35·9	45·0	9·1	40·5	26·9	53·5	26·6	8·6	1·24	10
South Norwood.	39·6	94	35·3	44·8	9·5	40·1	26·8	52·7	25·9	8·4	·92	8
Norwood	39·6	90	35·4	44·8	9·4	40·1	25·2	53·0	27·8	8·5	1·27	11
Isleworth	39·4	93	34·4	45·0	10·6	39·7	22·2	53·0	30·8	8·3	1·26	9
Regent'sPark ..	40·0	91	35·9	44·4	8·5	40·2	25·0	53·0	28·0	..	1·22	8
Finchley	38·5	94	33·9	43·8	9·9	38·9	21·3	51·6	30·3	7·6	1·30	12
Watford	39·2	92	34·8	44·3	9·5	39·6	23·2	51·4	28·2	7·9	1·55	10
Throcking	37·9	96	34·5	43·5	9·0	39·0	27·9	50·4	22·5	8·1	1·34	12
Aspley Guise ..	39·6	93	35·6	44·4	8·8	40·0	28·5	51·1	22·6	7·6	1·31	10
Hillington	38·4	94	34·8	44·2	9·4	39·5	28·1	52·4	24·3	9·1	1·70	10
Cromer	38·7	94	..	..	..	..	..	..	..	7·1	1·86	7
Somerleyton ..	39·4	92	35·5	44·4	8·9	40·0	28·9	53·6	24·7	8·3	1·68	12
Lowestoft	39·4	93	36·0	44·3	8·3	40·2	30·0	53·0	23·0	8·3	1·38	9
Guernsey	43·5	91	41·0	47·7	6·7	44·4	32·3	54·3	22·0	8·2	1·51	11
Dublin	43·6	84	40·4	49·0	8·6	44·7	34·1	56·5	22·4	6·9	1·48	17
Killarney	45·6	86	40·9	51·1	10·2	46·0	36·7	56·1	29·4	7·4	5·30	16

Station.	FEBRUARY. Means at 9 a.m. Temperature.	Humidity.	Temperature. Means. Min.	Max.	Range.	Mean.	Extremes in Month. Min.	Max.	Range.	Mean Amount of Cloud at 9 a.m.	Rain. Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Ventnor	44·0	85	40·8	49·1	8·3	45·0	35·3	54·5	19·2	6·8	1·22	9
Worthing	42·9	88	38·8	47·7	8·9	43·3	30·0	52·8	22·8	7·0	1·43	11
Hastings	42·6	89	39·1	46·4	7·3	42·8	31·7	53·4	21·7	7·4	1·18	9
Margate	41·6	88	37·4	46·6	9·2	42·0	28·8	54·5	25·7	7·5	·91	10
Southend	41·3	94	37·2	47·2	10·0	42·2	31·0	54·3	23·3	7·5	·75	7
Harestock	41·1	83	36·5	47·0	10·5	41·8	25·3	54·6	29·3	8·2	1·78	10
Swarraton	40·3	91	36·1	47·2	11·1	41·7	23·9	54·2	30·3	7·9	2·20	9
Strathfield Turg	41·1	88	36·2	48·8	12·6	42·5	22·0	57·4	35·4	7·9	1·59	12
Cranleigh	41·5	91	37·0	47·6	10·6	42·3	28·1	55·3	27·2	8·0	2·21	12
Tunb. Wells ..	40·4	93	36·1	45·9	9·8	41·0	26·5	54·0	27·5	8·4	2·13	13
Tunbridge	41·0	90	36·4	47·6	11·2	42·0	22·6	56·3	33·7	7·9	1·81	9
Beddington....	40·5	91	35·9	47·3	11·4	41·6	22·1	57·5	35·4	8·0	1·42	7
Croydon	40·9	88	37·3	47·9	10·6	42·6	24·3	56·0	31·7	8·6	1·75	9
South Norwood.	40·9	90	36·6	47·4	10·8	42·0	24·1	55·9	31·8	8·1	1·21	8
Norwood	41·1	88	37·0	47·9	10·9	42·5	22·7	56·7	34·0	8·4	1·24	11
Isleworth	41·0	90	36·1	47·9	11·8	42·0	24·0	57·2	33·2	7·3	1·53	10
Regent'sPark ..	41·1	88	36·8	47·4	10·6	42·1	25·8	56·7	30·9	..	1·31	9
Finchley	39·6	92	34·8	46·1	11·3	40·4	23·0	53·9	30·9	7·6	1·38	13
Watford	..	..	..	..	..	..	22·2	57·1	34·9	..	1·62	11
Throcking	38·5	94	34·6	45·2	10·6	39·9	24·9	53·4	28·5	8·5	1·81	11
Aspley Guise ..	40·2	91	35·6	46·7	11·1	41·2	23·0	54·2	31·2	8·1	1·48	10
Hillington	39·5	90	35·0	46·6	11·6	40·8	23·8	54·3	30·5	9·1	1·70	13
Cromer	39·8	89	..	..	..	..	..	..	..	7·6	1·66	7
Somerleyton ..	40·2	88	35·6	46·8	11·2	41·2	26·3	57·0	30·7	7·4	1·84	11
Lowestoft	40·7	88	36·7	46·2	9·5	41·4	29·2	52·8	23·6	7·5	1·64	8
Guernsey	44·1	91	41·1	49·6	8·5	45·3	32·3	54·9	22·6	6·3	1·89	10
Dublin	46·0	84	41·9	50·4	8·5	46·2	34·1	57·9	23·8	7·5	1·86	16
Killarney	46·3	86	41·1	51·2	10·1	46·2	29·4	55·9	26·5	8·3	4·34	18

Station.	MARCH. Means at 9 a.m. Temperature.	Humidity.	Temperature. Means. Min.	Max.	Range.	Mean.	Extremes in Month. Min.	Max.	Range.	Mean Amount of Cloud at 9 a.m.	Rain. Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Ventnor	48·5	78	41·9	53·3	11·4	47·6	31·8	59·6	27·8	4·7	·85	13
Worthing	47·3	82	39·3	53·1	13·8	46·2	30·7	60·5	29·8	5·0	1·01	9
Hastings	47·0	83	41·2	51·4	10·2	46·3	30·3	57·6	27·3	5·1	1·40	14
Margate	46·5	81	40·2	52·8	12·6	46·5	32·5	62·0	29·5	6·1	1·20	11
Southend	46·3	90	39·7	53·5	13·8	46·6	29·9	61·9	32·0	4·7	·98	8
Harestock	45·7	75	37·1	53·1	16·0	45·1	27·8	62·9	35·1	5·1	·65	15
Swarraton	44·4	84	36·4	53·2	16·8	44·8	27·5	63·4	35·9	5·0	·85	11
Strathfield Turg	46·1	81	36·3	55·6	19·3	46·0	28·3	64·5	36·2	6·6	·99	9
Cranleigh	45·8	84	38·7	54·0	15·3	46·4	28·1	63·3	35·2	5·5	1·04	13
Tunb. Wells ..	45·4	89	38·2	52·5	14·3	45·4	27·8	62·9	35·1	6·2	1·43	14
Tunbridge	46·2	82	38·4	54·5	16·1	46·4	29·1	65·5	36·4	4·9	1·05	9
Beddington....	45·8	84	36·8	55·1	18·3	46·0	25·1	64·7	39·6	4·2	·75	10
Croydon	46·0	79	38·2	54·6	16·4	46·4	28·2	64·0	35·8	5·6	·84	11
South Norwood.	45·5	85	38·0	54·3	16·3	46·1	27·7	64·5	36·8	5·0	·64	8
Norwood	46·1	79	37·9	54·9	17·0	46·4	27·0	64·8	37·8	5·3	·86	12
Isleworth	45·0	84	37·4	55·4	18·0	46·4	27·7	65·2	37·5	5·4	1·23	10
Regent'sPark ..	44·7	85	38·6	54·3	15·7	46·4	27·0	63·4	36·4	..	1·29	10
Finchley	43·8	86	36·2	53·2	17·0	44·7	28·2	62·3	34·1	4·1	1·35	18
Watford	44·5	82	36·5	54·2	17·7	45·3	29·3	65·5	36·2	5·2	1·59	15
Throcking	43·7	86	36·9	53·7	16·8	45·3	25·2	65·3	40·1	4·6	1·14	11
Aspley Guise ..	46·4	80	36·7	53·6	16·9	45·1	27·2	63·4	36·2	5·3	1·16	9
Hillington	44·3	84	35·5	53·5	18·0	44·5	28·1	62·4	34·3	8·2	1·62	10
Cromer	45·5	82	..	..	..	..	..	..	..	4·8	1·07	7
Somerleyton ..	45·0	84	36·9	53·9	17·0	45·4	28·3	62·5	34·2	4·4	1·24	8
Lowestoft	44·6	87	37·5	52·5	15·0	45·0	28·0	62·0	34·0	5·8	1·09	10
Guernsey	48·2	86	43·3	53·5	10·2	48·4	35·8	59·9	24·1	5·6	1·83	17
Dublin	46·9	78	41·2	52·7	11·5	46·9	31·9	60·6	28·7	6·6	2·26	17
Killarney	48·1	86	41·2	52·9	11·7	47·0	29·8	58·0	28·2	·9	3·98	..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WITH

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FOR THE QUARTER ENDING

JUNE 30TH, 1882.

BY

WILLIAM MARRIOTT, F.M.S.,

Assistant-Secretary.

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AIR TEMPERATURE was below the average.

In *April* the mean temperature (mean of maximum and minimum) was 47°·3, and varied from 50°·2 at Ventnor, 50°·0 at Hastings and Ilfracombe, 49°·8 at Teignmouth, 49°·7 at Worthing, 49°·5 at Falmouth, 49°·3 at Isleworth and Weymouth, 49°·2 at Southend and Weston-super-Mare, and 49°·1 at Bournemouth, to 41°·2 at Alston, 42°·8 at Cramlington, 43°·5 at Dartmoor, 43°·6 at Buxton, 43°·8 at Alnwick, 44°·3 at Stapleton, 44°·7 at Seathwaite, 45°·0 at Scaleby, and 45°·1 at Cheadle. The weather was mild for the greater part of the month, and very fine from the 1st to the 11th, but cold and ungenial from the 25th to the 30th. The maximum temperature occurred mostly on the 3rd, 6th, 20th and 21st. The highest readings were:—On the 3rd, 64°·5 at Swarraton; on the 6th, 65°·3 at Portsmouth; on the 8th, 65°·6 at Southampton; on the 20th, 66°·4 at Teignmouth, and 65°·8 at Norwood; and on the 21st, 67°·0 at Southend, 66°·3 at Hillington, 65°·7 at Wakefield, and 65°·4 at Isleworth. The minimum temperature took place generally on the 16th. The lowest readings were:—On the 9th, 18°·2 at Alston; on the 10th, 24°·8 at Alston, and 26°·0 at Buxton; and on the 16th, 18°·9 at Alston, 22°·9 at Cramlington, 24°·5 at Leaton, 25°·0 at Stapleton, 25°·3 at Cockermouth, 25°·8 at Hodsock, and 26°·1 at Churchstoke. The mean daily range of temperature was 14°·1.

In *May* the mean temperature was 52°·6, and varied from 55°·0 at Regent's Park, Southend and Tunbridge, 54°·8 at Ventnor and Isleworth, 54°·6 at Norwood, 54°·5 at South Norwood and Strathfield Turgiss, 54°·4 at Hastings and Teignmouth, 54°·2 at Cardiff and Ilfracombe, to 46°·6 at Alston, 48°·9 at Buxton and Cramlington, 49°·7 at Scarborough, 49°·9 at Alnwick and Blackpool, 50°·2 at Stapleton, 50°·3 at Leaton, 50°·4 at Churchstoke, 50°·8 at Cheadle, and 51°·0 at St. Michael's-on-Wyre. The weather was remarkably fine and bright, especially from the 10th to the 20th. Temperature was above the average except from the 13th to the 20th. The maximum temperature occurred on various dates, chiefly on the 22nd, 29th and 30th. The highest readings were:—On the 18th, 75°·5 at Scaleby, and 78°·5 at Stapleton; on the 19th, 75°·2 at Seathwaite; on the 22nd, 78°·6 at Tunbridge, 78°·3 at Cockermouth, 72°·8 at Norwood, and 72°·5 at

Isleworth; on the 23rd, 73°·2 at Hillington; on the 29th, 73°·6 at Tunbridge, and 72°·2 at Regent's Park; and on the 30th, 72°·1 at Teignmouth. The minimum temperature took place mostly on the 16th and 17th. The lowest readings were:—On the 13th, 26°·9 at Alston; on the 14th, 27°·7 at Alston; on the 16th, 27°·7 at Alston, 28°·0 at Leaton, 29°·0 at Buxton, 29°·2 at St. Michael's-on-Wyre, 29°·6 at Hodsock, and 30°·0 at Churchstoke; on the 17th, 27°·6 at Alston, 29°·0 at Buxton, and 30°·2 at Oakamoor; and on the 18th, 31°·1 at Hillington. The mean daily range of temperature was 17°·4.

In *June* the mean temperature was 55°·4, and varied from 58°·4 at Southend, 57°·8 at Ventnor, 57°·3 at Tunbridge and Worthing, 57°·1 at Hastings, 57°·0 at Margate and Regent's Park, 56°·9 at Teignmouth, 56°·8 at Isleworth, Norwood and Weymouth, to 50°·8 at Alston, 52°·1 at Buxton, 52°·7 at Cramlington, 53°·4 at Churchstoke and Scarborough, and 53°·5 at Bolton, Cheadle and Stapleton. The weather was cold, dull and wet throughout the month. The maximum temperature took place mostly between the 27th and 30th. The highest readings were:—On the 27th, 73°·9 at Strathfield Turgiss, 73°·6 at Southend, and 73°·3 at Isleworth and Portsmouth; on the 29th, 77°·3 at Ross, 74°·2 at Burghill, and 73°·6 at Hillington; and on the 30th, 76°·5 at Seathwaite, 75°·4 at Teignmouth, 75°·0 at Scaleby, 74°·2 at Bridgetown, 74°·0 at Leaton, and 73°·6 at Torquay. The minimum temperature occurred chiefly on the 13th, 16th, and 17th. The lowest readings were:—On the 11th, 33°·2 at Alston; on the 12th, 32°·8 at Alston; on the 13th, 31°·8 at Alston, 34°·0 at Stapleton, and 35°·4 at Portsmouth; on the 16th, 31°·8 at Alston, and 34°·5 at Cheltenham; and on the 17th, 34°·1 at Leaton, 34°·3 at Alston, 35°·0 at Churchstoke and Swarraton, and 35°·4 at Harestock. Owing to the cloudy state of the sky the mean daily range of temperature was only 14°·3.

Atmospheric Pressure was below the average.

In *April* the pressure was much below the average, the mean, reduced to sea-level, being 29·77 ins. The highest readings were in the south-east, and the lowest in the west. The maximum occurred in the extreme north on the evening of the 7th, and in the other districts on the morning of the 8th; the highest being 30·572 ins. at 9 p.m., on the 7th at Alnwick. The minimum took place in the north on the morning of the 14th, the lowest being 28·985 ins. at Scaleby at 9 a.m., and in the other districts on the afternoon and evening of the 29th, the lowest being 28·827 ins. at Cheltenham at 8.30 p.m.

In *May* the pressure was slightly above the average, the mean being 30·05 ins. The highest readings were in the south-east, and the lowest in the north-west. The maximum occurred in the north on the 16th, and in the south on the 17th, the highest being 30·515 ins. at 9 p.m. on the 16th at Wakefield. The minimum took place in the north and east on the evening of the 24th, and in the other districts on the morning of the 25th; the lowest being 29·176 ins. at 9 p.m. on the 24th, at Scaleby.

In *June* the pressure was lower than in the preceding month, the mean being 29·89 ins. The variation in the distribution of mean pressure was very considerable, ranging from 29·96 ins. in the south-west to 29·82 ins. in

the north. The maximum occurred on the morning of the 1st, the highest being 30·403 ins. at 9 a.m. at Scarborough. The minimum took place on the morning of the 9th, the lowest being 29·269 ins. at 9 a.m., at Cramlington.

RAINFALL was above the average.

In *April* the rainfall and number of rainy days were above the average. The monthly falls varied from 9·78 ins. at Seathwaite, 9·25 ins. at Dartmoor, 7·88 ins. at Ashburton, 7·26 ins. at Bridgetown, 6·81 ins. at Falmouth, 6·49 ins. at Babbacombe, 6·20 ins. at Torquay, 6·06 ins. at Maker, and 6·08 ins. at Bolton, to 1·91 in. at Southend, 2·11 ins. at Cromer, 2·20 ins. at Leaton, 2·24 ins. at Worthing, 2·33 ins. at Boston, 2·37 ins. at Cramlington, 2·48 ins. at Lowestoft, and 2·64 ins. at Regent's Park. Rain fell almost daily from the 12th to the 30th. The greatest daily falls occurred in the south-west on the 12th, in the north on the 13th, in the west on the 22nd, and in the south-east on the 25th, and in the midland and north-eastern districts on the 29th. Falls exceeding 1·20 in. were registered as follows:—On the 1st, 1·22 in. at Maker; on the 12th, 1·21 in. at Ashburton; on the 13th, 1·46 in. at Alnwick, and 1·32 in. at Dartmoor; on the 14th, 1·46 in. at Blackburn; on the 19th, 1·35 in. at Seathwaite; on the 24th, 2·46 ins. at Seathwaite; and on the 29th, 1·54 in. at Scarborough, and 1·29 in. at Oakamoor. Snow fell at several places on the 5th, 15th, 28th, 29th, and 30th. Thunderstorms prevailed on the 2nd, 15th, 23rd, 24th, 28th, and 30th. Hail occurred on the 1st, 2nd, 5th, 13th, 15th, 18th, 24th, 26th, 28th and 30th.

In *May* both the rainfall and number of rainy days were much below the average. The monthly falls varied from 8·27 ins. at Seathwaite, 3·21 ins. at Strelley, 2·99 ins. at Bolton, 2·82 ins. at Cheadle, 2·79 ins. at Cockermouth, 2·77 ins. at Oakamoor, 2·74 ins. at Belper, and 2·72 ins. at Cardiff, to 0·79 in. at Wakefield, 0·86 in. at South Norwood, 0·89 in. at Croydon, 0·92 in. at Beddington, 0·94 in. at Tunbridge, and 0·99 in. at Maker. Scarcely any rain fell in any part of the country from the 12th to the 19th. The greatest daily falls occurred on the 3rd, 5th, and 23rd to 26th. Falls exceeding 0·70 in. were registered as follows:—On the 3rd, 1·06 in. at Cheadle, 0·84 in. at Lowestoft, 0·81 in. at Bolton, and 0·78 in. at Oakamoor; on the 7th, 1·71 in. at Alnwick, and 0·84 in. at Cramlington; on the 9th, 1·25 in. at Seathwaite; on the 24th, 4·43 ins. at Seathwaite, 1·50 in. at Cockermouth, and 0·80 in. at Stapleton; and on the 26th, 0·97 ins. at Cromer, and 0·88 in. at Seathwaite. Thunderstorms were experienced on the 1st to 4th, 6th to 8th, 11th, 22nd to 24th, 26th, 29th and 30th. Hail occurred on the 1st to 4th, 6th to 8th, 22nd and 23rd. A little sleet fell at Marlborough on the evening of the 15th.

In *June* the rainfall and number of rainy days were in excess of the average. The monthly falls varied from 13·30 ins. at Seathwaite, 8·13 ins. at Bolton, 8·05 ins. at Buxton, 7·24 ins. at Macclesfield, 6·75 ins. at Oakamoor, 5·87 ins. at Cheadle, 5·84 ins. at Marlborough, and 5·76 ins. at Blackburn, to 1·91 in. at Hastings, 1·94 in. at Southend, 2·08 ins. at Strathfield Turgiss, 2·15 ins. at South Norwood, 2·18 ins. at Isleworth, 2·29 ins. at Ventnor, 2·31 ins. at Croydon, and 2·33 ins. at Margate and Regent's

Park. Rain fell in some parts of the country on every day of the month. The greatest daily falls occurred on various dates, but chiefly on the 3rd, 5th and 8th. Falls exceeding 1 inch were registered as follows:—On the 3rd, 1·09 in. at Bolton, and 1·01 in. at Alnwick; on the 5th, 1·47 in. at Bridgetown, 1·18 in. at Ashburton, 1·14 in. at Seathwaite, 1·12 in. at Falmouth, and 1·10 in. at Buxton; on the 8th, 1·02 in. at Seathwaite; on the 13th, 1·96 in. at Seathwaite, and 1·49 in. at Bolton; on the 14th, 1·33 in. at Seathwaite; on the 17th, 2·33 ins. at Seathwaite; on the 20th, 1·13 in. at Seathwaite; and on the 22nd, 1·25 in. at Marlborough, and 1·05 in. at Hodsock. Thunderstorms prevailed on the 3rd, 4th, 6th to 12th, 15th, 18th, 19th, and 22nd to 29th. Hail occurred on the 5th to 7th, 9th to 12th, 15th, 18th, 19th and 24th. Snow fell in the midland district on the 12th.

Wind.—In *April* the prevalent direction of the wind was from E and NE from the 1st to the 10th, variable from the 11th to the 22nd, and W from the 23rd to the 30th. The wind was strong in force throughout the month, and gales blew on several occasions, that on the 29th being exceptionally severe and causing immense destruction to fruit and other trees, as they were nearly in full leaf. [For reports on the effects of this gale see the observers' notes.]

In *May* the wind was variable from the 1st to the 11th, E from the 12th to the 23rd, SW from the 24th to 28th, and NE from the 29th to the 31st. Strong winds blew on a few occasions but scarcely reached the force of a gale.

In *June* the direction of the wind was chiefly E from the 1st to the 3rd, SW from the 4th to the 8th, NW from the 9th to the 15th, and SW or variable from the 16th to the 30th. Strong winds occurred during the first half of the month, and at a few stations reached the force of a gale on two or three occasions.

Fog was prevalent on *April* 6th, 11th, 21st, 22nd; *May* 4th; and *June* 26th, 29th, and 30th.

Halos were seen on *April* 12th, 15th, 16th, 18th, 21st, 24th, 28th; *May* 2nd, 3rd, 6th, 7th, 9th, 23rd, 26th, 29th, 30th; and *June* 1st, 6th, 13th, 17th, 19th, 20th, 23rd, 26th and 27th.

Aurora was observed on *April* 16th and 21st; and *June* 14th.

NOTES BY THE OBSERVERS.

Alnwick.—*April* was a gloomy month upon the whole. The heavy ● in the middle of the month was much needed, the cereal and other crops showing the benefit derived by a fresh spring. A good show of fruit, though apples do not seem as plentiful as last year. Farm work is being pushed forward rapidly.

May.—Grass crops generally have suffered through the meagre ●; cereals are improving slowly, and root crops are well forward for the season. ⊤ and ▲ were frequent in the earlier part of the month, and since then the weather has been remarkably fine.

June.—The wet, cold weather of the first half of this month retarded vegetation to some extent, but becoming more genial towards the latter part, great improvement could be noticed in the hay crops, which are heavy. Cereals generally look well, and turnips and other root crops are very promising.

Babbacombe.—*April* was a mild and very wet month. It was wetter and warmer than any of the previous 5 Aprils; and the total monthly ● 6·49 ins., was nearly thrice the average amount, and the heaviest since that of October, 1880. SW gales blew on the 13th, 28th and 29th; that on the 29th being very severe, the wind reaching a velocity of 61 miles from 3 to 4 p.m., and blowing down a large number of trees in the neighbourhood. Mean Sea Temperature, 50°·0.

May was a dry and generally fine month. The ● was about ⅛ of the average; none was measured in the 14 days from the 6th to 19th inclusive. The temperature was about the average. Mean Sea Temperature, 54°·3.

June was a cold, wet and cloudy month. The ● was half as much again as the average, but fell chiefly in showers. The temperature was very low (about 3° below the average) particularly at night. Mean Sea Temperature, 56°·8.

CHELTENHAM.—*April.*—The first part of the month till 12th was very lovely weather. The weather then broke and was very unsettled for the rest of the month. Cold and ungenial towards close; very stormy on 28th and 29th, finishing up with a heavy ↯ on 30th lasting about 1 hour. On the 17th potatoes and asparagus killed by frost.

May was a showery month at the commencement, followed by upwards of a fortnight of rainless weather, then ↯'s which broke up the weather for a week, the month ending with bright, sunny, dry, days.

June was a cold, wet, month. A heavy ↯ occurred on the 26th, otherwise there was no noteworthy atmospheric disturbance. Currants and raspberries were ripe on the 16th.

CHURCHSTOKE.—*April.*—Spring sowing is about completed, and except on very stiff land, the seed has been put into a good soil. The weather has been cold for the season and grass keep is not so forward as was expected a month ago. Wheat has lost colour during the month and is not looking quite so promising. Field work will be delayed a little, the land being so wet.

May.—Fruit prospects are very poor owing to continued frosts and easterly winds. Blight is very prevalent. Potatoes have been injured by frosts. Wheat is improving in colour, but unlikely to produce heavy crops. Spring grain looks fairly well. Hay crops are very promising. Grass is plentiful. Stock are doing well.

June was cold and wet for the season, the frequent showers interfering with turnip sowing, and horse labour is thrown behindhand. Turnips sown early look fairly well, but grow slowly. Grain harvest will not be so early or crops so good as was at one time expected. Hay and clover crops are generally good. Harvest work is just commencing. The cold nights have prejudicially checked spring planted vegetables. New potatoes were ready on 23rd, and peas on the 30th. Potato disease has already appeared, being very early. Fruit is very scarce, and trees are still suffering from the effects of the blight.

COCKERMOUTH.—*April* 16th.—Considerable damage done by frost to tender vegetation; early potatoes blackened and fruit trees in bloom injured.

CRAMLINGTON.—*April.*—The low temperature on the night of 16th nipped the fruit trees in exposed situations coming into bloom, but the complaints are very few. Crops generally are promising well. The cuckoo was heard on 25th.

May.—Vegetation has made rapid progress since the 20th, the temperature never having fallen below 42°. Crops look well and forward, new land hay crops are thin, and the clover very deficient.

June.—All crops are looking well, the ● has done the grass crops a great deal of good. Fruit promises badly, especially apples, &c. Plums are a failure. The want of bright sunshine has retarded the ripening of fruits, &c.

CROYDON.—*April.*—The average velocity of the wind between 3 p m. and 9 p.m. on the 29th was 36 miles an hour, and throughout the whole of these 6 hours the wind was gradually veering from SSW to WSW. The wind blew almost exclusively from some point between N and E, during the first 9 days of the month, but after this time for only 37 hours altogether. The total duration of these NE winds amounted to 240 hours, or 10 days. The winds of greatest frequency were from ENE, SW, and WSW. The gale of the 29th did great damage to the tender young foliage of all deciduous trees then in leaf, and more especially to the horse chestnuts, the leaves of which were cut into shreds on the south side and blackened by their long continued friction against the branches.

May was on the whole an exceptionally favourable month for most farming and gardening operations and also for the growing crops. As the month advanced it was pitiable to observe the sad contrast between the appearance of those trees which at the time of the cruel gale of the previous month were approaching their full leafage and those which had not then come into leaf, the latter looking unusually verdant and luxuriant and the former blackened on one side as if they had been scorched by fire, while the ground beneath them was in some cases strewed with the apparently charred remains of their damaged foliage. My rose plants suffered less from the attacks of grubs and caterpillars than in recent springs, but towards the end of the month greenfly was becoming especially numerous and troublesome to dislodge. A double white hawthorn came first into blossom on the 4th. The duration of clear sunshine during the 8 days ending the 20th was remarkable, amounting on an average to very nearly 11¼ hours a day.

June.—Towards the end of the month it was interesting to notice how greatly most of those trees which had suffered through the April gale had recovered from its effects. Indeed, the injured side of them at that time presented the more pleasing appearance of the two, being covered with young spring-like foliage while the north side still retained only the dull green leafage of midsummer. My roses were throughout the whole of June so greatly infested with rose aphis that I found it impossible to prevent some harm being done to them. Slugs and snails were also exceptionally numerous and destructive. A syringa (*Philadelphus grandiflorus*) came first into blossom on the 11th.

DUBLIN.—*April.*—Scarcely an appreciable increase of temperature as compared with March, the mean temperature of which was 46°·5, that of April being 46°·9. Polar

winds predominated. ● was in excess. The 29th was a bitterly cold day, ●, sleet, and ✳ falling heavily.

May was a very favourable spring month; strangely like May of 1881.

June was very changeable, cold and showery. High W winds and frequent heavy showers.

HILLINGTON.—*May.*—A short hay crop is to be expected. During the ⌇ on the 7th a large poplar tree was struck, and the pieces carried to a distance of more than 50 yards.

June.—Crops are good and with favourable weather promise a good yield. On the 12th a tremendous clap of ⊤ was heard at 1.5 p.m. A poplar tree was barked its whole length, and the current followed the root and ploughed up the ground, then passed through the hedge and garden, killing plants; entered a neighbouring cottage and shattered all the windows which were shut. At Massingham 5 miles ESE a farm-house was injured; and cattle were killed in Marshland. Telegraphic communication was interrupted between Lynn and Hillington.

ISLEWORTH.—*April.*—29th.—Foliage on the SW of the lime trees severely injured; the leafage being much blackened and so beaten and shrivelled as to make a distinct difference on the windward side. About 7 lime trees blown down, and several partly over, one horse chestnut, and one elm in an area from this house of a few hundred yards radius. Foliage on oaks, horse chestnuts, sycamores, and especially on limes (some of which are almost completely blackened), much injured.

May.—Flowers on lilac are luxuriant this month beyond what observer ever noticed here or elsewhere; on white hawthorn fine but not very numerous, rather below a medium amount, on pink variety excessively luxuriant, the bushes not being exposed to the gale of April 29th; on laburnum very fair; on horse chestnuts good where not injured by the gale, but no oak blossom seen on the injured trees, and very little seen elsewhere.

MAKER.—*April.*—On the 29th a gale occurred, which when from WNW was the severest since October 14th, 1877. All young foliage was utterly burnt up and destroyed. It is probable that some trees and hedges will not leaf again this year, even if they are not killed or blighted. No one can remember a gale in these parts doing such damage to young foliage.

May.—Temperature about 0°·5 in excess of local mean, but the temperature of a spring 18 ins. below the soil is 1°·0 below the mean. This is remarkable, as the previous months of the year have been considerably warmer than the average. From February 25th to May 7th the temperature has only risen 3° instead of 5°, which seems to be its normal increase.

June.—The coldest June since I have resided in these parts (1873 inclusive); about 4° below the local mean. The 9 a.m. readings are especially noticeable, as being 6° below their mean, and the maxima are 5°·2 in defect.

SCARBOROUGH.—*April.*—The mean temperature of the month is 2°·9 above the average of previous 14 years. The ● is also 2·92 ins. above previous 16 years average. The Mean Sea Temperature 44°·7, is 2° above previous 5 years average.

May.—Mean temperature 1°·1 above average of previous 14 years, but slightly lower than May, 1881. Mean Sea Temperature, 48°·2.

June was a showery month, but the ● fell chiefly at night. Mean temperature 1°·1 below the previous 14 years' average. ● 1·27 in. above previous 16 years' average. Mean Sea Temperature, 51°·9, 1°·6 above previous 5 years average.

SOUTHAMPTON.—*April.*—During the gale of 29th, and morning of 30th, the force of the wind rose to 8 and 9, the highest being between 4 and 6 p.m., but it was probably stronger in the town. At 4 p.m. a large chimney-stack was blown down, wrecking the upper part of a house. At this time or during the night, two large elms in the town were blown down, one injuring a strong wall, the other breaking a large horse chestnut tree in two. Numbers of trees are reported as blown down at North and South Stoneham, 2 miles off.

SOUTHBOURNE.—*April.*—29th.—Tremendous gale from SW, 3 to 5 p.m., reaching force 11. Immense damage was done to trees and roofs of houses, one inhabited house at Christchurch being entirely unroofed. A large vessel went down in Swanage Bay, the wreck of which was driven the next day on to our beach. This was by far the heaviest gale, at this time of the year, that I can recollect in 20 years. Immense damage was done to deciduous trees, the foliage of which was completely stripped.

STRELLEY, *April.*—16th.—Frost cut potatoes.

May.—The ▲ which fell on the 23rd was the size of peas: half of each stone was transparent like ice, the other half was opaque like frozen ✳; a very sharp ⌇, vivid ≮ occurred while it fell; the fall was local, much more fell just here than ½ mile on each side; the storm came from WSW.

June.—24th—Wheat in ear. 30th—Wheat in flower.

TEIGNMOUTH, *April.*—29th—At 3.30 p.m. a very strong gale blew for a short time, which caused much mischief. Chimneys and trees were blown over and slates stripped off buildings. Three vessels in the Teign blown from their moorings and damaged; wind decreased slightly, but still continued very strong at night.

VENTNOR.—*April.*—29th—Blowing hard all day, quite a gale. The effect of the wind on the young foliage was most disastrous; the fruit trees being seriously damaged.

TEMPERATURE OF THE SOIL AT 9 A.M.

Station.	Depth below the Surface.	April.			May.			June.		
		Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.
		°	°	°	°	°	°	°	°	°
Aspley Guise	3 ins.	47·7	51·8	45·0	55·9	64·1	49·4	60·2	66·3	55·4
Aspley Guise	6 ins.	47·5	52·0	44·6	54·6	59·8	48·0	58·4	63·6	54·8
Babbacombe	6 ,,	50·5	53·8	46·8	56·4	61·6	48·7	59·1	62·7	56·0
Croydon.....	6 ,,	47·6	51·7	45·0	55·0	60·2	48·2	58·0	63·7	52·9
Marlborough	6 ,,	47·9	52·1	45·0	55·1	60·6	47·8	58·4	64·3	54·9
Alnwick.....	1 ft.	46·8	51·5	43·0	54·0	61·0	47·5	58·1	62·0	52·5
Aspley Guise	1 ,,	47·7	51·8	45·0	54·3	59·2	47·9	58·0	62·4	55·0
Babbacombe.....	1 ,,	51·4	53·8	48·6	56·7	61·0	50·0	59·6	62·7	57·3
Cardiff	1 ,,	48·6	52·0	46·4	53·1	57·8	47·6	57·3	61·2	55·2
Croydon.....	1 ,,	48·2	51·4	46·6	54·8	59·3	48·5	58·1	62·5	54·4
Cullompton	1 ,,	48·8	51·5	46·0	54·8	58·5	47·3	57·1	60·2	54·8
Harestock	1 ,,	47·6	49·9	45·9	52·0	55·5	46·5	55·5	59·2	53·4
Hodsock	1 ,,	47·1	49·5	44·2	53·5	57·7	48·0	57·2	60·5	54·7
Isleworth	1 ,,	48·4	51·9	46·3	55·3	59·8	48·6	58·0	62·1	55·0
Lowestoft	1 ,,	47·2	49·8	45·5	54·0	60·3	47·0	57·6	61·5	53·2
Marlborough	1 ,,	48·9	52·2	46·9	55·7	60·4	48·5	59·1	63·9	56·1
Norwood	1 ,,	48·0	51·1	45·9	54·5	59·4	48·3	58·1	62·0	55·2
Oakamoor	1 ,,	44·0	48·3	40·3	50·3	53·5	47·3	51·8	56·7	47·2
Regent's Park	1 ,,	47·4	51·0	45·0	54·5	59·5	47·2	57·7	61·8	54·2
St. Leonard's	1 ,,	50·2	52·1	47·1	54·3	58·2	49·0	57·8	61·7	54·8
Southampton	1 ,,	50·8	54·2	48·0	56·0	59·6	50·2	59·4	63·4	57·2
Strelley.....	1 ,,	45·4	49·3	43·2	51·7	56·5	45·0	55·9	58·7	52·3
Worthing	1 ,,	50·6	53·2	48·6	56·6	61·2	50·8	59·6	64·3	56·7
Marlborough.....	1½ ft.	49·1	51·4	47·0	55·1	59·1	49·0	58·8	62·3	56·9
Alnwick	2 ft.	49·1	51·0	47·5	54·5	60·0	50·0	58·5	60·0	56·0
Aspley Guise	2 ,,	48·3	50·7	46·2	53·9	58·0	48·4	57·8	61·2	56·0
Harestock	2 ,,	47·0	48·5	45·0	50·4	53·3	46·9	53·7	56·4	52·8
Isleworth	2 ,,	48·6	50·4	47·0	54·2	57·6	48·9	57·3	60·2	55·3
Marlborough.....	2 ,,	48·9	50·8	46·9	53·9	57·2	49·2	57·7	60·1	56·9
Oakamoor	2 ,,	44·0	47·8	39·7	50·2	53·8	47·0	51·1	55·3	47·6
Aspley Guise	4 ft.	47·3	48·8	45·7	51·3	53·7	48·3	55·0	56·7	54·0
Cardiff	4 ,,	47·5	48·7	46·7	49·8	51·6	48·5	53·1	54·9	51·8
Regent's Park	4 ,,	46·0	48·0	44·5	50·2	53·0	47·0	54·5	55·5	53·2

DURATION OF BRIGHT SUNSHINE.

Station.	Total amount.			Greatest amount on one day.			No. of days on which no Sunshine was registered.		
	April.	May.	June.	April.	May.	June.	April.	May.	June.
	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.			
Aspley Guise..	157	246	135	11·8	13·3	12·3	2	0	1
Blackpool	143	275	185	10·8	14·2	14·3	3	1	1
Buxton	115	253	136	11·3	14·5	12·5	7	1	3
Churchstoke ..	135	244	155	11·1	13·3	13·8	2	1	1
Croydon	169	265	137	11·5	14·0	13·5	1	0	1
Cullompton ..	163	239	171	12·0	13·6	13·5	4	1	4
Harestock	197	258	171	12·2	13·8	14·8	2	0	0
Hillington ..	142	267	159	10·6	14·4	14·6	2	1	1
Hodsock	142	248	157	12·1	14·7	13·8	5	0	1
Llandudno ..	138	280	153	11·9	15·2	14·6	1	1	5
Marlborough	167	256	159	11·5	13·9	13·8	2	0	2
South Bourne	190	289	191	12·2	13·8	14·3	5	0	1
Strelley	140	246	145	12·0	13·7	12·9	3	0	1

Abstract of Meteorological Observations for the Month of APRIL, 1882.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of					Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.														
Alnwick	29·779	43·5	41·5	42·5	37·6	49·9	27·6	16	63·7	21	41·1	40·0	82	88	8·3	7·1	4·19	1·46	13	16	0	0	16	0	10	4	8	9	4	5	4	10	6
Cramlington	·766	43·8	41·6	42·7	36·8	48·9	22·9	16	60·9	20	41·7	40·2	84	89	8·1	7·5	2·37	·75	13	18	0	0	16	1	5	11	9	14	1	9	5	5	1
Scaleby	·758	45·3	42·5	43·9	37·7	52·3	26·5	16	59·5	8	42·3	40·7	78	86	7·2	6·0	3·83	·78	23	14	0	4	14	2	5	5	23	3	0	14	1	3	6
Scarborough	·762	45·5	44·2	44·9	40·8	49·6	31·5	16	63·3	21	43·3	42·5	84	87	6·8	5·7	4·74	1·54	29	16	1	4	10	1	3	11	13	6	4	12	7	3	1
Wakefield	·770	46·4	44·8	45·6	39·2	53·6	29·6	10	65·7	21	43·3	42·6	78	84	7·8	..	3·61	·82	29	18	0	..	..	..	7	11	12	5	5	5	10	5	0
Buxton	·790	43·4	41·3	42·4	36·2	51·0	26·0	10	59·2	21	41·8	39·8	88	88	7·8	5·7	5·28	·96	29	16	4	2	11	0	0	8	12	9	1	13	9	8	0
Cheadle	·768	44·0	43·1	43·6	37·9	52·2	29·2	16	59·4	20, 21	42·1	41·2	85	85	6·7	6·0	4·33	1·15	29	19	1	4	11	2	2	3	19	5	7	8	6	9	1
Llandudno ..	·756	47·7	46·6	47·2	41·4	52·6	33·5	16	61·8	13	45·1	44·6	81	85	6·9	6·4	3·18	·64	22, 29	19	0	5	14	0	0	5	18	4	2	11	12	8	0
Leaton	·767	46·6	44·1	45·4	37·5	54·4	24·5	16	64·1	19	43·7	41·9	79	83	6·8	5·0	2·20	·38	29	20	0	4	12	..	6	3	6	12	9	8	8	4	4
Churchstoke..	·774	45·5	43·4	44·4	37·7	53·7	26·1	16	62·5	19	42·7	41·2	79	83	6·9	5·8	3·01	·79	29	17	1	3	9	0	1	5	9	9	3	10	12	7	4
Cheltenham ..	·765	48·0	45·8	46·9	39·6	55·6	26·5	16	62·0	20, 21	44·8	43·4	78	82	7·0	5·3	3·49	·61	22	21	0	3	9	1	10	3	9	4	10	11	9	2	2
Carmarthen	·747	49·0	45·4	47·2	40·5	55·1	29·4	11	63·3	8	45·6	43·4	77	85	6·4	4·9	5·53	·78	22	21	0	5	7	0	3	0	17	5	5	8	6	6	10
Dartmoor	....	44·0	43·7	43·9	38·9	48·1	28·0	11	54·0	21	42·4	42·6	88	91	8·2	8·2	9·25	1·32	13	22	0	0	20	0	0	0	1	8	3	23	13	9	3
Babbacombe..	·780	49·1	46·1	47·6	42·2	54·5	33·9	11	64·3	20	46·4	44·5	81	88	7·0	5·6	6·49	·80	21	23	0	5	11	3	5	10	5	8	7	9	10	6	0
Downside	·775	46·9	44·7	45·8	39·7	54·0	31·0	10	62·2	3	44·5	43·1	82	88	7·1	5·6	5·37	·80	22	19	0	4	10	2	6	14	3	4	4	15	7	7	0
Marlborough	·788	47·8	44·6	46·2	39·3	55·1	30·5	10	61·4	21	45·0	42·9	80	87	7·3	5·1	5·00	·95	22	19	0	3	12	0	1	5	8	1	6	9	3	5	22
Strathfield T.	·795	49·4	45·5	47·4	38·7	58·2	29·8	16	64·3	6, 20	46·0	43·1	77	82	6·7	4·9	3·46	·79	25	15	0	3	10	0	5	6	7	7	4	14	12	5	0
Norwood	·794	49·6	45·4	47·5	40·0	56·4	32·5	16	65·8	20	45·7	42·9	74	81	6·5	5·5	2·82	·81	25	16	0	4	10	1	2	7	9	2	12	4	14	5	5
Croydon	·796	49·2	45·2	47·2	40·2	55·9	32·2	16	63·2	20	45·3	42·5	74	80	7·1	4·6	2·97	·78	25	17	0	4	9	1	2	9	9	3	9	11	9	3	5
South Bourne	·782	49·2	47·1	48·1	42·5	55·1	34·9	10	62·2	20	45·9	44·2	77	79	5·9	4·1	3·81	·53	22, 25	18	0	4	3	2	7	8	8	8	5	13	5	6	0
Hillington ..	·774	48·5	43·8	46·2	39·1	55·3	30·1	16	66·3	21	45·8	42·4	80	89	6·9	5·9	2·75	·71	13	17	0	2	10	2	1	11	9	9	10	12	4	4	0
Lowestoft	·770	47·9	45·3	46·6	41·4	52·1	34·7	30	61·1	20	45·3	43·6	81	87	6·7	5·5	2·48	·98	25	13	0	5	11	1	3	3	16	3	9	8	12	6	0
Dublin	·744	47·6	46·2	46·9	41·4	52·7	31·2	16	61·7	20	44·2	44·0	76	84	6·3	5·2	3·53	·80	14	20	1	4	6	1	3	6	13	8	5	6	10	7	2
Killarney	29·718	48·1	45·5	46·8	40·0	54·5	29·7	16	60·0	9, 11	45·7	44·0	83	89	7·1	6·4	6·58	1·08	2	24	0	2	11	2	4	4	8	6	6	8	9	5	10
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Alnwick	≡	..	●	..	●	..	≡	..	..	≡	..	●≡	●	●	●▲≡	..	..	●	●	..	..	●	●	●	●	●	●	●≡	●	..
Cramlington	●≡	●	..	..	●	..	..	..	..	..	..	●	●	●≡	●▲	●	..	●	●	..	..	●	●	●	●	●	●	●	●	..
Scaleby	●	..	..	..	●	..	..	..	..	..	..	●	●	●	..	..	..	●	●	..	..	●	●	●	●	..	●	●	..	●▲
Scarborough	..	●	..	..	●	..	..	..	..	..	..	●	●≡	●	*	..	●	●	●	..	○	●	●	●	●	●	●	●	●≺	..
Wakefield	●	●	●	..	●	..	..	..	..	..	..	●	●	●	●	..	●	●	●	..	●	●	●	●	..	..	●	●	●	..
Buxton	..	..	..	..	●*	..	..	..	..	..	..	●	●	●	..	..	●	●	●	..	●	●	●	●	●	..	●	●*▲	●*	●*▲
Cheadle	..	●	..	..	●	..	..	..	..	..	..	●	●	●	..	●	●	●	●	..	●	●	●	●▲ᛕ	●	●	●	●	●*	●
Llandudno	..	●	..	..	●	≡	..	..	..	..	..	●	●▲	●	●	..	●	●	●	..	●	●	●	●	●	●	●	●	●	●
Leaton	●	●▲ᴛ	..	..	●	●	..	..	..	..	..	●	●	●	●	..	●	●	●	..	●	●	●	●	●	..	●	●	●	●
Churchstoke	●	●ᛕ	..	..	●	..	..	..	..	..	..	●	●	●	..	●	..	●	●	..	●	●	●	●	..	..	●	●	●*	●
Cheltenham	●	●	..	..	●	..	..	..	..	..	..	●	●	●	●	●	●	●	●	..	●	●	●	●	●	●	●	●	●	●▲ᛕ
Carmarthen	●	..	●	●	..	..	..	..	..	..	●	●	●	●	●	●	●	●	●	..	●	●	●	●▲	●	..	●	●	●	●▲
Dartmoor	●	●	●	●	..	..	..	..	..	..	..	●	●	●	●	●	●	●▲	●	..	●	●≡	●	●	●	●	●	●	●	●
Babbacombe	●▲	●▲	●≡	●≡	..	..	..	..	..	..	●	●	●≡	●	●▲○	●	●	●○	●	≡	●≡	●≡	●	●	●	●	●▲	●	●	●▲
Downside	●	..	●	●	..	≡	..	..	..	..	≡	●	●	●	●	●	●	●○	●	..	●≡○	●	●	..	●	..	●	●▲	●	●▲
Marlborough	●	..	≡	..	●	≡	..	..	..	..	..	●	●	●	●	●	●	●	●	..	●≡	●	●	●	●	▲	●	●▲ᛕ	●	●▲
Strathfield Turgiss	..	..	..	..	..	≡	..	..	..	..	..	●	●	●	..	●○	●	●	..	..	●	●	●	●▲	●	..	●	●	●	●▲
Norwood	..	..	..	..	≡	≡	..	..	..	≡	≡	●○	●	●	●▲	●○Ψ	●	..	●	..	○Ψ	●≡	●	●○	●≡	●≡	●	●▲○	●	●
Croydon	..	..	..	●	▲≺	≡	..	..	..	..	≡	●	●	●	●ᛕ	●	●	..	●	..	..	●	●	●▲	●	●	●	●▲	●	●
South Bourne	..	..	..	..	..	..	..	..	..	..	●	●	●	..	●ᛕ	●	●	●	●	..	●	●	●	●	●	●	●	●	●	●
Hillington	..	..	..	●	●	..	..	..	..	..	..	●	●	●	..	..	●	●	●	..	..	●	●ᛕ	●ᴛ	●	●	●	●▲ᛕ	●	●▲
Lowestoft	..	..	..	..	●	..	..	..	..	..	..	..	●	●	..	..	●	..	●	..	..	●	●	●▲ᛕ	●	●	●	●ᛕ	●	..
Dublin	●	●	●	●≡	●	..	..	≡	..	≡	●≡	●	●	●	●	≡○	●	●○	●	..	●	●	●	●▲	..	▲	●	..	●*▲	●
Killarney	●▲	●	●	●	●≡	≡	≡	≡	≡	●	●	●	●	●	..	●	●	●	●	..	●	●	●	●≡Ψ	●	●	●	●≡	●▲	●▲

EXPLANATION OF THE SYMBOLS.—● indicates rain; * snow; ▲ hail; ≡ fog; ᛕ thunderstorm; ᴛ thunder; ≺ lightning; ○ solar halo; Ψ lunar halo; Ψ aurora.

Abstract of Meteorological Observations for the Month of MAY, 1882.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of				Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.														
Alnwick.....	30·045	52·1	46·2	49·1	40·9	59·0	31·1	1	67·8	29	47·6	44·3	71	86	6·1	5·7	2·68	1·71	7	10	0	2	6	0	6	5	5	9	9	9	6	3	10
Cramlington	·041	51·8	46·8	49·3	40·3	57·5	31·8	17	66·9	23, 27	47·8	44·9	74	86	6·2	5·4	2·32	·84	7	11	0	2	9	0	3	15	3	10	5	9	13	4	0
Scaleby.....	·017	54·1	48·8	51·4	41·4	61·9	31·5	16	75·5	18	49·6	46·2	72	81	5·4	5·1	1·48	·49	24	8	0	7	9	1	1	2	18	4	4	17	4	0	12
Scarborough..	·052	52·6	49·1	50·8	45·3	56·8	36·6	9	68·8	29	48·5	46·5	74	81	4·1	4·9	1·21	·51	25	9	0	5	1	0	4	20	12	2	5	12	3	4	0
Wakefield....	·053	55·1	50·8	52·9	42·1	61·9	32·0	16, 17	69·8	18	49·9	47·8	69	80	..	..	·79	·42	3	8	0	..	..	..	3	14	13	2	4	10	13	3	0
Buxton	·074	52·5	46·1	49·3	38·9	58·9	29·0	16, 17	66·6	22	47·7	44·1	70	85	5·7	4·9	2·37	·66	26	12	0	3	3	0	2	4	19	3	5	8	10	11	0
Cheadle.....	·053	51·8	48·8	50·3	41·8	59·9	32·3	16	68·1	22	47·9	46·2	75	81	5·1	4·7	2·82	1·06	3	12	0	5	5	0	4	4	18	6	11	7	4	7	1
Llandudno ..	·030	54·6	51·2	52·9	45·0	58·8	33·8	4	65·5	23, 29	50·2	48·5	73	81	5·5	4·7	1·03	·41	23	10	0	8	9	0	0	4	16	11	3	8	19	1	0
Leaton	·052	54·4	49·2	51·8	39·0	61·7	28·0	16	69·0	29	50·0	46·8	72	83	..	..	1·62	·44	3	11	0	..	..	..	13	4	9	7	7	8	10	3	1
Churchstoke..	·053	53·0	48·4	50·7	40·0	60·8	30·0	16	67·4	18	48·5	45·2	71	78	5·3	4·2	2·08	·41	23	11	0	6	6	0	2	7	6	6	1	17	8	10	5
Cheltenham...	·046	54·6	50·9	52·8	42·9	63·0	31·8	17	69·0	22	49·9	48·0	71	80	5·9	4·7	1·70	·41	25	11	0	6	6	0	4	5	8	7	11	14	4	3	6
Carmarthen ..	·022	55·7	50·0	52·8	44·4	61·5	35·4	5	69·2	31	51·4	47·7	74	84	5·7	3·4	1·74	·43	23	12	0	11	10	0	6	2	18	0	11	8	5	1	11
Dartmoor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Babbacombe..	·046	54·6	50·9	52·8	46·6	60·0	37·5	17	66·7	11, 28, 30	50·8	48·6	76	84	6·4	4·8	1·52	·48	25	11	0	4	9	2	3	9	18	1	4	12	6	6	3
Downside	·043	52·9	49·6	51·3	43·7	60·5	34·5	16	66·0	30	49·7	47·7	79	86	6·0	4·7	2·36	·53	25	12	0	6	7	0	3	21	1	2	4	19	9	2	1
Marlborough	·062	54·2	50·2	52·2	43·4	61·9	32·7	9	68·1	29	50·2	47·6	75	82	6·7	4·4	2·59	·61	23	12	1	8	10	0	0	2	8	2	2	11	0	1	36
Strathfield T.	·065	56·6	51·2	53·9	43·2	65·7	33·3	17	71·8	29	52·2	48·6	73	82	5·9	3·3	1·43	·53	5	8	0	7	5	0	4	11	6	6	5	14	7	3	6
Norwood	·067	56·2	51·5	53·9	45·0	64·3	32·8	17	72·8	22	50·7	48·4	67	79	5·9	4·1	1·03	·23	5	10	0	7	3	0	2	9	9	5	5	10	5	7	10
Croydon	·068	56·1	51·0	53·6	44·4	63·5	34·5	17	71·2	29	50·5	47·9	67	79	6·2	3·5	·89	·23	5	8	0	5	3	0	3	11	9	1	7	14	4	2	11
South Bourne	·051	54·8	51·9	53·4	46·1	59·9	36·5	17	68·7	30	50·6	48·9	74	80	4·8	3·7	1·24	·39	5	9	0	6	2	0	7	12	8	6	2	14	1	7	5
Hillington.....	·058	56·2	49·3	52·7	42·4	62·5	31·1	18	73·2	23	51·8	47·6	73	87	7·2	6·2	1·56	·50	25	11	0	1	11	0	4	14	7	10	4	18	0	4	1
Lowestoft	·058	54·4	50·3	52·3	45·9	57·6	35·9	17	68·0	29	51·1	48·4	79	86	5·5	5·9	1·96	·84	3	9	0	5	11	0	5	14	11	4	5	15	5	3	0
Dublin	30·012	55·2	52·0	53·6	46·3	60·1	38·0	17	66·7	11	49·9	49·0	68	80	4·0	4·1	1·53	·39	23	16	0	9	2	0	2	0	18	7	6	11	8	4	6
Killarney	29·985	54·1	49·5	51·8	43·6	60·3	30·9	17	68·3	31	50·2	47·2	75	84	6·3	5·2	2·64	·70	26	13	0	6	7	1	1	1	9	9	1	15	13	3	10
Columns	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

PHENOMENA OBSERVED AT THE STATIONS DURING MAY, 1882.

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Alnwick	●▲T	●▲	●	●	..	●▲T	●	●▲≡	●	..	..	..	..	..	..	..	..	..	T	..	..	..	..	●	●	..	..	..	..	..	..
Cramlington	●K	▲K	●K	●T	..	..	●T	●	●≡	..	..	..	..	..	..	..	≡	..	..	..	..	≡	●≡	●	●	●K	..	..	●T	..	..
Scaleby	●	..	●	..	..	..	●	●	●	..	..	..	..	..	..	..	..	..	..	..	..	..	..	●	●	●	..	..	..	..	..
Scarborough	..	..	●K	●	●	..	..	●	●	..	●	..	..	..	..	..	..	..	..	..	..	..	≡	●	●	●K	..	..	..	..	..
Wakefield	●	..	●	..	..	..	●T	..	●	..	..	..	..	..	..	..	..	..	..	..	..	●	..	●	..	●	●	..	..	..	..
Buxton	●▲	●	●K	..	●	..	≮	≮	●	..	●	..	..	..	..	..	..	..	..	..	..	●	●K	●	●	●	●	..	..	..	..
Cheadle	●T	●T	●▲K	..	●	..	≮	K	●	..	..	..	..	..	..	..	..	..	..	..	●	●T	●▲K	●T	●	●K	●	..	..	..	..
Llandudno	●	●	●	..	..	..	●	..	●	..	●T	..	..	..	..	..	..	..	..	..	..	●K	●▲K	●	..	..	●	..	..	..	..
Leaton	●	●	●K	..	..	..	T≮	..	●	..	●	..	..	..	..	..	..	..	..	..	..	●K	●K	●	●	●	●	..	..	..	..
Churchstoke	●	●	●K	..	..	..	●	..	●	..	..	..	..	..	..	..	..	..	..	..	..	●K	●K	●	●	●	●	..	..	..	..
Cheltenham	●	●	●	..	●	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	●	●▲K	●K	●	●	●	●	..	..	..	..
Carmarthen	●▲	●	●	..	..	..	●▲	..	●	..	..	..	..	..	..	..	..	..	..	..	●	●K	●T	●	●	●	●	..	..	..	..
Dartmoor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Babbacombe	●▲	●○	ψ	●	●	○	..	..	○	..	..	..	..	..	..	..	..	..	..	●	..	●≡	●≡	●	●	●	●	..	..	..	..
Downside	●	●	..	●▲≡K	●	○	..	..	●	..	..	..	..	..	..	..	..	..	..	●	●	K	●○	●	●	..	●	●	..	T	..
Marlborough	●	●	●	●	●	..	≮	●	..	..	..	..	..	..	*	..	..	..	..	..	..	●T	●K	●	●	●	●	..	..	..	..
Strathfield T.....	●	●T	K	..	●	○	..	K	..	..	..	..	..	..	..	..	..	..	..	●	..	..	●	●	●	●	..	..	..	..	..
Norwood	●	●≡ψ	●	●≡≮	●	..	○	≡	≡	..	..	≡	≡	..	..	..	≡	≡	..	..	..	●	●○	●	●	●○	..	..	ψ	○ψ	..
Croydon	●	..	●	●≡	●	..	≮	≮	..	..	..	≡	..	..	..	..	..	..	..	..	..	●≡	●≮	●	●	..	..	..	..	..	..
South Bourne....	●	●	..	●	●	..	..	●	..	..	..	..	..	..	..	..	..	..	..	●	..	..	●	●	●	..	..	..	..	..	..
Hillington	..	..	T	●	●	●	●▲K	●	●	..	..	..	..	●	●	..	..	..	..	..	..	..	..	●	●	..	..	●	..	..	..
Lowestoft	●▲	..	●▲K	●	●≡	●≡	●	●	●	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	●	..	..	..	..	..	..
Dublin	●▲	●	●	..	..	●	●▲T	●	●	≡	●	○	..	..	..	..	..	..	..	..	..	●	●▲K	●	●	●○	●	●	●	..	..
Killarney	●▲	●≡	●	..	●	●	..	..	●	≡	..	..	≡	..	≡	≡	≡	≡	..	..	●	●≮	●	●	●	●	●▲	..	..	..	..

EXPLANATION OF THE SYMBOLS.—● indicates rain; * snow; ▲ hail; ≡ fog; K thunderstorm; T thunder; ≮ lightning; ○ solar halo; ψ lunar halo; Ψ aurora.

Abstract of Meteorological Observations for the Month of JUNE, 1882.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of						Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.															
Alnwick	29·826	54·8	50·7	52·8	46·1	61·6	37·6	17	67·5	28	51·4	49·1	78	81	7·3	8·4	3·77	1·01	3	18	0	1	19	0	9	3	8	4	6	8	7	9	6
Cramlington..	·824	54·2	50·3	52·3	45·3	60·0	36·0	13	65·9	4, 20	50·9	48·9	79	90	7·5	6·4	4·82	·89	3	19	0	2	8	0	7	6	1	12	1	11	10	11	1
Scaleby	·821	56·3	52·4	54·4	46·1	63·1	36·0	16	75·0	30	52·5	50·2	76	85	6·9	6·3	3·21	·62	22	20	0	3	11	1	6	6	5	1	5	16	8	4	9
Scarborough..	·835	55·3	52·7	54·0	49·5	59·9	42·6	13	65·8	4	51·7	50·4	77	84	6·2	6·3	3·36	·72	10	20	0	0	7	3	5	3	4	6	3	18	8	13	0
Wakefield	·853	56·9	54·3	55·6	47·5	63·2	38·0	17	72·8	29	52·7	51·6	74	82	7·4	6·6	3·98	·82	22	21	0	1	11	1	3	4	2	5	6	11	17	12	0
Buxton	·886	53·7	50·1	51·9	44·4	59·7	35·4	1	71·6	30	50·7	48·6	81	89	8·3	7·1	8·05	1·10	5, 13	19	1	0	13	0	2	1	6	3	2	11	16	16	3
Cheadle	·876	53·5	52·4	52·9	46·7	60·2	40·6	12, 13	70·1	30	50·5	49·8	80	82	7·4	6·6	5·87	·95	3	19	1	0	10	0	5	0	6	4	5	8	13	14	5
Llandudno ..	·875	56·6	53·6	55·1	49·3	60·9	43·2	10, 11	68·5	28	53·0	51·5	78	86	7·5	7·3	2·99	·72	13	20	0	3	7	0	8	1	2	2	1	15	24	7	0
Leaton	·892	56·8	52·3	54·5	45·8	63·1	34·1	17	74·0	30	53·1	50·4	77	87	7·2	5·6	3·40	·45	13	22	0	3	11	..	6	0	1	6	8	7	17	14	1
Churchstoke..	·891	55·3	51·8	53·6	45·6	61·2	35·0	17	69·6	29	52·0	49·2	79	83	6·0	5·6	3·49	·83	4	19	0	0	2	0	0	6	0	4	2	12	11	14	11
Cheltenham ..	·899	56·9	54·1	55·5	47·8	63·6	34·5	16	73·0	29, 30	52·4	51·4	73	82	7·7	6·8	3·47	·52	26	19	0	0	10	0	0	1	1	4	9	21	14	7	3
Carmarthen ..	·901	57·2	52·3	54·8	48·5	61·5	38·3	17	72·8	30	53·1	50·4	75	87	7·3	6·0	3·76	·49	17	21	0	1	9	0	5	0	6	2	3	16	11	7	10
Dartmoor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Babbacombe..	·955	57·1	52·9	55·0	49·3	62·4	42·2	17	70·7	30	53·1	50·9	76	86	8·0	5·8	3·56	·93	5	19	0	0	11	0	4	2	3	1	5	15	18	11	1
Downside	·923	54·5	51·8	53·1	47·6	60·3	40·8	1, 13	70·1	30	51·7	50·4	82	90	7·5	6·1	5·36	·85	8	21	0	1	9	5	1	3	2	1	6	17	20	10	0
Marlborough	·927	56·1	52·2	54·1	47·3	62·4	37·1	13	70·2	27	52·9	50·6	80	89	8·6	6·8	5·84	1·25	22	21	0	0	15	0	2	0	3	2	3	11	5	4	30
Strathfield T.	·930	58·4	53·6	56·0	46·6	65·9	36·6	17	73·9	27	54·2	51·6	75	86	8·3	6·7	2·08	·47	8	15	0	1	15	0	2	4	2	3	4	20	16	9	0
Norwood	·922	58·2	54·3	56·2	48·8	64·7	40·8	16	72·7	27	53·8	51·6	74	82	8·3	6·9	2·35	·40	9	19	0	1	15	0	1	3	4	1	11	12	17	7	4
Croydon	·929	57·4	54·3	55·8	49·3	63·6	40·1	16	71·5	27	52·9	51·5	73	82	8·5	7·2	2·31	·38	24	20	0	1	17	3	2	2	2	2	8	19	16	4	5
South Bourne	·939	57·6	54·8	56·2	50·2	62·5	39·8	16	70·3	30	53·8	52·2	77	83	6·8	5·9	3·17	·59	21	17	0	1	8	2	2	3	0	5	7	10	17	15	1
Hillington....	·871	57·6	52·7	55·2	47·4	65·2	38·0	17	73·6	29	53·9	51·0	78	88	8·4	8·4	4·20	·91	18	20	0	0	18	0	3	4	3	4	7	17	9	13	0
Lowestoft ...	·873	57·1	53·5	55·3	48·9	62·0	40·0	16, 17	69·7	7	53·7	51·5	79	87	7·8	6·1	3·00	·70	18	16	0	0	10	0	3	3	4	2	8	13	14	13	0
Dublin	29·873	56·8	54·7	55·8	49·7	61·8	40·4	13	68·5	30	52·4	51·6	73	80	6·8	5·3	2·38	·39	23	25	0	1	6	1	4	0	7	8	8	8	15	9	1
Killarney	....	56·5	..	..	47·8	61·4	38·0	16, 17	69·0	26	54·0	..	84	..	7·6	..	3·50	·40	17, 26	16	..	..	..	..	..	..	..	..	..	..	..	..	..
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

Phenomena observed at the Stations during JUNE, 1882.

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Alnwick	..	..	●	●	●	●	●ϟ	●	●	..	●	..	●	●	..	..	●	●	≡	○	●	●	●T	●	○≡	≡	..	≡	≡	..
Cramlington	..	..	○	●T	●	●	●▲ϟ	●	●	..	●	..	●	●	●T	..	●	●T	..	●	●	●	●ϟ	●T	●	≡	..	≡	..	≡
Scaleby	..	..	●	●	●	●	●	●	●	..	●	..	●	○	..	..	●	●	●	○	●	●	●	●ϟ	●	●T	..	..	..	..
Scarborough	..	..	●ϟ	●T	●	●ϟ	●▲ϟ	●T	●	●	●	●	●	●	●	..	●○	●	..	..	●	●≡	●	●≡	●	..	..	≡	≡	..
Wakefield ..	..	..	●	●	●	..	●	●	●	..	●	●	●	●	●	..	●	..	●	○	●	●	●	●ϟ	..	●ϟ	●	..	●ϟ	..
Buxton	..	●	●	●ϟ	●▲	●▲ϟ	●	●	●	●	●	●▲✱	●	●	..	..	●	●	..	●	..	●	●	●	..	..	..	..	..	..
Cheadle ...	..	..	●	●T	●	..	●	●	●	●T	●	●▲✱	●	●	●▲	..	●	●	..	●	●	●T	●T	●T	..	T	T	..	..	..
Llandudno ..	..	●	●	●	●	●▲	●	●	●	..	●	●	●	●	..	..	●	●	..	●	○	..	●T	●ϟ	●T	●T	..	T	..	≡
Leaton	..	●	●	●	●	●	..	●	●	●▲	●▲	●▲	●	●	●	..	●	●▲	●	●	○	●	●T	●▲T	●	..	..	..	..	..
Churchstoke	..	●	●	●	●	●	..	●T	●T	●	●T	▲	●	..	●	..	●	●	..	..	●	●	●	●T	●	●ϟ≡	..	..	≡	≡
Cheltenham	..	●	●	●	●	●	..	●	●	●	●	..	●	●	●▲	..	●	●	..	..	●	●	●	●▲	..	●ϟ	..	..	..	..
Carmarthen	..	●	●	●	●	..	●	●	●	..	●	●	●	..	..	..	●	●	●	●	●	●	●	●	●	●	●	..	..	..
Dartmoor ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Babbacombe	●○	●≡	●≡	●	●	●	..	●	●	..	●	..	●○	..	..	..	●○	●	..	●	●	●	●	●	●	..	○	●	≡	..
Downside ..	..	..	..	●	●	●	..	●	●	●	●	●	●	..	..	..	●○	●	●	●	●	●	●	●	●	●T	●	●	≡	≡
Marlborough	..	..	●	●	●	●	●	●	●T	●	●	▲	●	..	●	..	●	●▲	..	..	●	●	●	●	..	●	●≡	●	●	≡
Strathfield T.	..	..	●	●	●	..	..	●	●	●	..	●▲T	●	..	●	..	●○	●	..	..	●	●	..	●	..	T	..	T	●	≡
Norwood ..	..	●	●≡	●	●	●○	..	●	●▲ϟ	●	●	●	●	♆	●▲	≡	●○	●	○	○	..	●	●○	●○	≡	●T≡○	..	..	●	≡
Croydon	..	●	●	●	●	●	..	●	●ϟ	●	●	●▲	●	..	●	..	●	●	..	..	●	●	●	●○	..	●T	..	..	●	≡
South Bourne	..	●	●	..	●	●	●	●	●	..	..	..	●	..	..	..	●	●	●	..	●	●	●	●	..	..	..	●	..	●
Hillington ..	..	●	●	●	●	●	T	●	●▲	●	..	●▲ϟ	●	●	●ϟ	..	●	●ϟ	●▲T		..	●	●	●	●ϟ	●T	T	..	..	≡
Lowestoft ..	..	..	..	..	●	●	..	●	●	●	..	●T	●	●	●	..	●	●	●	●	..	●	..	●ϟ	●	..	..	..	..	..
Dublin	..	●	●	●ϟ	●	●	●	●	●	●	●○	●▲	●	●	..	○	●	●	●	●	●	●T	●T	●○	●	●	●≡	●	..	..
Killarney ..	●	●	●	●	●	●	..	..	●	●	●	..	..	..	..	..	●	..	..	●	..	●	●	●	●	●	..	..	..	..

Explanation of the Symbols.—● indicates rain; ✱ snow; ▲ hail; ≡ fog; ϟ thunderstorm; T thunder; ϟ lightning; ○ solar halo; ♆ lunar halo; ♕ aurora.

Station.	Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.						
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.			Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°			In.	
Alnwick	43·5	82	37·6	49·9	12·3	43·8	27·6	63·7	36·1		8·3	4·19	16
Cramlington .	43·8	84	36·8	48·9	12·1	42·8	22·9	60·9	38·0		8·1	2·37	18
Stapleton	44·5	84	36·5	52·2	15·7	44·3	25·0	59·5	34·5		7·6	3·58	16
Scaleby	45·3	78	37·7	52·3	14·6	45·0	26·5	59·5	33·0		7·2	3·83	14
Alston	41·9	82	33·9	48·5	14·6	41·2	18·2	55·8	37·6		7·6	4·75	19
Cockermouth ..	47·5	72	38·4	54·3	15·9	46·4	25·3	64·4	39·1		6·6	3·64	14
Seathwaite ..	44·2	78	37·6	51·7	14·1	44·7	27·5	63·0	35·5		7·6	9·78	17
St. Mich.-on-Wyre	47·7	78	39·1	53·8	14·7	46·5	30·1	60·6	30·5		6·3	3·57	13
Blackpool	47·4	80	38·8	52·4	13·6	45·6	29·3	59·9	30·6		5·2	4·50	19
Blackburn ..	..	..	..	..	..	..	..	..	..		6·4	5·81	15
Bolton	45·5	79	38·1	52·6	14·5	45·3	29·1	61·1	32·0		7·2	6·03	18
Scarborough ..	45·5	84	40·8	49·6	8·8	45·2	31·5	63·3	31·8		6·8	4·74	16
,, (St. Nichs.)	44·8	86	39·6	51·3	11·7	45·5	29·2	64·0	34·8		8·1	5·05	18
Wakefield	46·4	78	39·2	53·6	14·4	46·4	29·6	65·7	36·1		7·8	3·61	18
Hodsock	47·0	80	38·6	54·6	16·0	46·6	25·8	64·9	39·1		7·7	2·93	19
Macclesfield ..	46·1	82	39·0	52·9	13·9	46·0	27·3	62·5	35·2		6·1	3·55	17
Buxton	43·4	88	36·2	51·0	14·8	43·6	26·0	59·2	33·2		7·8	5·28	16
Beacon Stoop..	..	..	..	..	..	..	24·0	57·5	33·5		..	4·51	..
Oakamoor	..	..	..	..	..	..	..	..	..		6·9	4·45	17
Cheadle	44·0	85	37·9	52·2	14·3	45·1	29·2	59·4	30·2		6·7	4·33	19
Belper	44·9	87	39·0	53·0	14·0	46·0	27·9	62·5	34·6		5·4	3·62	18
Strelley	45·7	81	38·4	53·4	15·0	45·9	27·3	62·9	35·6		6·8	3·17	18
Loughborough	46·9	80	40·0	55·5	15·5	47·8	27·8	65·0	37·2		6·9	2·64	18
Llandudno	47·7	81	41·4	52·6	11·2	47·0	33·5	61·8	28·3		6·9	3·18	19
Chester	48·1	75	40·1	56·1	16·0	48·1	29·4	63·2	33·8		7·9	3·59	18
Leaton .. .	46·6	79	37·5	54·4	16·9	46·0	24·5	64·1	39·6		6·8	2·20	20
Churchstoke ..	45·5	79	37·7	53·7	16·0	45·7	26·1	62·5	36·4		6·9	3·01	17
Kenilworth ..	47·2	79	39·0	54·4	15·4	46·7	28·2	61·8	33·6		7·2	3·12	17
Burghill	48·0	79	39·2	56·4	17·2	47·8	27·8	63·1	35·3		7·0	3·60	18

Station.	Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.						
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.			Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°			In.	
Alnwick	52·1	71	40·9	59·0	18·1	49·9	31·1	67·8	36·7		6·1	2·68	10
Cramlington .	51·8	74	40·3	57·5	17·2	48·9	31·8	66·9	35·1		6·2	2·32	11
Stapleton	53·5	77	40·9	59·5	18·6	50·2	33·0	73·5	40·5		5·7	2·02	12
Scaleby	54·1	72	41·4	61·9	20·5	51·7	31·5	75·5	44·0		5·4	1·48	8
Alston	50·9	70	35·9	57·4	21·5	46·6	26·9	69·7	42·8		5·0	1·93	12
Cockermouth ..	55·7	65	42·4	62·5	20·1	52·4	32·4	73·3	40·9		5·3	2·79	14
Seathwaite ..	53·5	72	42·3	60·7	18·4	51·5	31·0	75·2	44·2		5·9	8·27	13
St. Mich.-on-Wyre	55·2	67	40·8	61·3	20·5	51·0	29·2	70·5	41·3		4·5	1·94	10
Blackpool	53·8	73	41·4	58·4	17·0	49·9	30·7	69·7	39·0		3·4	1·79	11
Blackburn ..	..	..	..	..	..	..	..	..	..		4·0	2·24	10
Bolton	53·7	68	41·6	60·3	18·7	51·0	35·1	68·7	33·6		5·2	2·99	14
Scarborough ..	52·6	74	45·3	56·8	11·5	51·0	36·6	68·8	32·2		4·1	1·21	9
,, (St. Nichs.)	51·8	77	42·3	57·2	14·9	49·7	33·2	65·0	31·8		5·9	1·33	8
Wakefield	55·1	69	42·1	61·9	19·8	52·0	32·0	69·8	37·8		..	·79	8
Hodsock	54·7	70	40·1	62·5	22·4	51·3	29·6	70·4	40·8		5·0	1·74	11
Macclesfield ..	53·7	71	42·3	60·2	17·9	51·2	33·5	67·1	33·6		4·8	1·65	14
Buxton	52·5	70	38·9	58·9	20·0	48·9	29·0	66·6	37·6		5·7	2·37	12
Beacon Stoop..	..	..	..	..	..	..	..	..	..		..	2·36	..
Oakamoor	53·8	70	40·8	..	..	..	30·2	..	..		5·3	2·77	13
Cheadle	51·8	75	41·8	59·9	18·1	50·8	32·3	68·1	35·8		5·1	2·82	12
Belper	52·5	75	42·7	60·8	18·1	51·7	33·1	68·7	35·6		4·2	2·74	11
Strelley	53·7	72	41·4	61·8	20·4	51·6	32·1	70·7	38·6		5·1	3·21	13
Loughborough	..	..	..	..	..	..	..	..	..		..	..	..
Llandudno	54·6	73	45·0	58·8	13·8	51·9	33·8	65·5	31·7		5·5	1·03	10
Chester	55·9	66	42·8	62·8	20·0	52·8	32·4	72·0	39·6		6·0	2·16	12
Leaton .. .	54·4	72	39·0	61·7	22·7	50·3	28·0	69·0	41·0		..	1·62	11
Churchstoke ..	53·0	71	40·0	60·8	20·8	50·4	30·0	67·4	37·4		5·3	2·08	11
Kenilworth ..	54·2	71	42·2	61·9	19·7	52·0	32·6	70·8	38·2		6·7	1·75	14
Burghill	53·8	73	42·5	62·9	20·4	52·7	34·5	70·3	35·8		5·4	2·42	12

Station.	Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.						
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.			Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°			In.	
Alnwick	54·8	78	46·1	61·6	15·5	53·9	37·6	67·5	29·9		7·3	3·77	18
Cramlington .	54·2	79	45·3	60·0	14·7	52·7	36·0	65·9	29·9		7·5	4·82	19
Stapleton	56·0	78	45·7	61·3	15·6	53·5	34·0	73·2	39·2		7·9	5·61	19
Scaleby	56·3	76	46·1	63·1	17·0	54·6	36·0	75·0	39·0		6·9	3·21	20
Alston	53·3	77	41·8	59·8	18·0	50·8	31·8	70·0	38·2		6·8	5·32	20
Cockermouth ..	..	..	..	..	..	..	..	..	..		..	..	..
Seathwaite ..	55·2	83	46·7	60·7	14·0	53·7	39·6	76·5	36·9		7·7	13·30	21
St. Mich.-on-Wyre	56·5	82	47·2	62·0	14·8	54·6	35·7	70·1	34·4		8·4	4·69	22
Blackpool	56·4	77	48·2	60·3	12·1	54·2	36·2	67·9	31·7		6·9	3·57	20
Blackburn ..	..	..	..	..	..	..	..	..	..		7·4	5·76	21
Bolton	54·7	80	46·2	60·8	14·6	53·5	39·0	71·3	32·3		8·3	8·13	23
Scarborough ..	55·3	77	49·5	59·9	10·4	54·7	42·6	65·8	23·2		6·2	3·36	20
,, (St. Nichs.)	54·3	81	47·5	59·3	11·8	53·4	41·2	65·0	23·8		7·8	3·62	20
Wakefield	56·9	74	47·5	63·2	15·7	55·3	38·0	72·8	34·8		7·4	3·98	21
Hodsock	57·0	74	46·9	63·8	16·9	55·4	36·8	72·2	35·4		8·0	3·69	22
Macclesfield ..	54·1	79	46·9	60·7	13·8	53·8	39·1	67·1	28·0		6·4	7·24	19
Buxton	53·7	81	44·4	59·7	15·3	52·1	35·4	71·6	36·2		8·3	8·05	19
Beacon Stoop..	..	..	..	..	..	..	33·0	67·5	34·5		..	5·21	..
Oakamoor	54·8	78	44·6	..	..	..	39·5	..	..		7·6	6·75	18
Cheadle	53·5	80	46·7	60·2	13·5	53·5	40·6	70·1	29·5		7·4	5·87	19
Belper	55·2	80	47·0	62·1	15·1	54·6	36·1	70·8	34·7		6·4	4·13	19
Strelley	55·8	79	46·6	63·2	16·6	54·9	38·0	72·7	34·7		7·8	3·64	18
Loughborough	..	..	..	..	..	..	..	..	..		..	..	..
Llandudno	56·6	78	49·3	60·9	11·6	55·1	43·2	68·5	25·3		7·5	2·99	20
Chester	57·4	72	48·6	63·6	15·0	56·1	40·0	72·4	32·4		7·7	3·95	22
Leaton .. .	56·8	77	45·8	63·1	17·3	54·5	34·1	74·0	39·9		7·2	3·40	22
Churchstoke ..	55·3	79	45·6	61·2	15·6	53·4	35·0	69·6	34·6		6·0	3·49	19
Kenilworth ..	56·3	76	46·8	63·0	16·2	54·9	37·8	71·3	33·5		7·9	3·95	18
Burghill	57·1	73	46·4	64·1	17·7	55·3	36·7	74·2	37·5		7·2	2·64	20

Station.	APRIL.											MAY.											JUNE.										
	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.	Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.	Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.							Means.				Extremes in Month.							Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°		In.	
Ross	48·5	82	40·3	56·8	16·5	48·5	29·0	63·0	34·0	7·1	3·49	21	55·5	75	43·4	64·3	20·9	53·9	34·6	71·4	36·8	5·4	2·01	12	58·7	76	48·1	65·5	17·4	56·8	38·5	77·3	38·8	6·4	2·51	21
Cheltenham	48·0	78	39·6	55·6	16·0	47·6	26·5	62·0	35·5	7·0	3·49	21	54·6	71	42·9	63·0	20·1	52·9	31·8	69·0	37·2	5·9	1·70	11	56·9	73	47·8	63·6	15·8	55·7	34·5	73·0	38·5	7·7	3·47	19
Marlborough ..	47·8	80	39·3	55·1	15·8	47·2	30·5	61·4	30·9	7·3	5·00	19	54·2	75	43·4	61·9	18·5	52·6	32·7	68·1	35·4	6·7	2·59	12	56·1	80	47·3	62·4	15·1	54·9	37·1	70·2	33·1	8·6	5·84	21
Downside	46·9	82	39·7	54·0	14·3	46·9	31·0	62·2	31·2	7·1	5·37	19	52·9	79	43·7	60·5	16·8	52·1	34·5	66·0	31·5	6·0	2·36	12	54·5	82	47·6	60·3	12·7	53·9	40·8	70·1	29·3	7·5	5·36	21
Carmarthen ..	49·0	77	40·5	55·1	14·6	47·8	29·4	63·3	33·9	6·4	5·53	21	55·7	74	44·4	61·5	17·1	53·0	35·4	69·2	33·8	5·7	1·74	12	57·2	75	48·5	61·5	13·0	55·0	38·3	72·8	34·5	7·3	3·76	21
Cardiff.....	48·2	83	41·9	55·8	13·9	48·8	34·1	61·6	27·5	..	5·68	20	54·2	78	45·8	62·6	16·8	54·2	39·8	69·1	29·3	..	2·72	13	57·1	76	49·0	63·1	14·1	56·1	40·9	72·4	31·5	..	4·28	20
Weston-s-Mare	48·5	87	42·8	55·6	12·8	49·2	34·2	62·5	28·3	6·5	4·15	21	54·8	77	45·9	61·7	15·8	53·8	38·4	68·3	29·9	6·0	1·83	12	57·1	78	50·2	61·6	11·4	55·9	45·0	70·4	25·4	6·8	4·05	18
Ilfracombe ..	50·1	79	45·2	54·9	9·7	50·0	38·3	62·0	23·7	5·0	3·38	21	54·3	81	48·3	60·1	11·8	54·2	40·3	71·0	30·7	4·5	2·36	12	56·9	82	52·2	61·0	8·8	56·6	43·8	65·5	21·7	7·1	3·74	18
Bude	48·9	87	41·8	55·1	13·3	48·4	30·7	63·2	32·5	5·4	3·68	15	55·1	81	44·3	61·0	16·7	52·7	33·7	70·3	36·6	4·5	2·40	11	56·3	84	50·0	60·4	10·4	55·2	37·1	67·1	30·0	6·7	4·06	13
Helston	50·4	84	43·4	54·4	11·0	48·9	33·2	58·5	25·3	6·7	5·83	23	55·1	82	46·9	59·4	12·5	53·2	38·5	67·1	28·6	6·0	1·50	12	56·5	80	50·4	60·8	10·4	55·6	40·9	67·3	26·4	7·3	4·18	22
Falmouth	50·4	81	44·6	54·5	9·9	49·5	37·6	59·0	21·4	6·5	6·81	21	55·7	75	48·0	59·0	11·0	53·5	42·1	66·7	24·6	5·4	2·38	12	57·1	79	51·1	60·7	9·6	55·9	45·4	68·6	23·2	6·7	4·45	20
Maker	48·4	83	43·1	54·3	11·2	48·7	35·6	60·7	25·1	6·2	6·06	24	53·5	80	46·9	60·2	13·3	53·6	38·7	68·0	29·3	5·2	·99	10	55·0	84	50·4	60·5	10·1	55·4	43·3	69·7	26·4	6·7	3·92	24
Dartmoor	44·0	88	38·9	48·1	9·2	43·5	28·0	54·0	26·0	8·2	9·25	22	..	..	..	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	..	..	..	..	....	..
Ashburton	..	..	..	..	..	..	35·3	62·0	26·7	..	7·88	22	..	..	..	..	..	..	36·5	69·1	32·6	..	2·40	11	..	..	..	..	..	..	40·4	72·1	31·7	..	4·14	19
Bridgetown....	50·8	78	41·0	56·5	15·5	48·8	29·2	63·9	34·7	6·4	7·26	22	56·8	71	44·0	62·3	18·3	53·1	32·3	71·3	39·0	5·7	1·47	11	58·4	74	48·8	63·7	14·9	56·3	38·0	74·2	36·2	7·2	4·41	24
Torquay, C. C.	49·4	85	43·0	54·1	11·1	48·5	36·0	60·8	24·8	6·5	5·75	22	54·3	83	46·6	59·6	13·0	53·1	38·3	67·2	28·9	5·3	1·62	11	56·7	83	49·8	61·1	11·3	55·5	43·4	70·6	27·2	8·4	3·48	17
Torquay, R. ..	48·8	81	42·1	54·8	12·7	48·4	35·9	60·5	24·6	7·0	6·20	22	55·2	75	46·2	61·2	15·0	53·7	39·9	69·0	29·1	6·3	1·51	11	56·2	76	48·9	61·3	12·4	55·1	42·9	73·6	30·7	8·4	3·30	20
Babbacombe ..	49·1	81	42·2	54·5	12·3	48·4	33·9	64·3	30·4	7·0	6·49	23	54·6	76	46·6	60·0	13·4	53·3	37·5	66·7	29·2	6·4	1·52	11	57·1	76	49·3	62·4	13·1	55·8	42·2	70·7	28·5	8·0	3·56	19
Teignmouth, B.	50·3	76	43·6	56·0	12·4	49·8	34·2	65·0	30·8	7·0	5·73	21	56·2	71	47·3	61·5	14·2	54·4	39·0	69·1	30·1	5·7	1·47	11	57·4	75	50·7	63·1	12·4	56·9	43·2	74·0	30·8	7·7	3·27	17
Teignmouth, W.	51·2	83	40·3	57·4	17·1	48·8	33·8	66·4	32·6	6·3	5·85	23	57·8	79	44·5	63·4	18·9	54·0	36·4	72·1	35·7	5·4	1·36	11	59·3	82	47·4	65·9	18·5	56·6	39·7	75·4	35·7	7·1	3·14	19
Sidmouth	48·6	83	42·2	54·1	11·9	48·2	35·8	61·1	25·3	7·3	5·05	23	54·6	75	45·8	59·2	13·4	52·5	37·6	67·0	29·4	6·0	1·43	10	56·9	80	49·2	61·2	12·0	55·2	41·6	71·0	29·4	8·5	4·10	22
Brampford Spk.	49·1	84	41·3	56·2	14·9	48·8	31·3	61·3	30·0	6·9	5·16	24	55·9	77	44·9	63·0	18·1	53·9	36·5	70·9	34·4	5·9	1·81	12	57·6	79	49·3	63·1	13·8	56·2	39·2	71·3	32·1	7·7	3·61	19
Cullompton ..	48·7	81	40·6	55·6	15·0	48·1	31·2	62·7	31·5	7·2	5·17	24	55·9	72	42·6	62·7	20·1	52·6	35·1	67·4	32·3	5·4	1·87	10	57·5	77	47·5	62·6	15·1	55·1	35·5	72·6	37·1	7·4	3·98	22
Weymouth	49·1	81	43·9	54·7	10·8	49·3	38·0	59·5	21·5	6·2	3·91	19	55·0	75	47·5	60·2	12·7	53·8	40·0	65·8	25·8	4·4	1·76	7	57·4	77	51·2	62·4	11·2	56·8	44·0	71·3	27·3	6·1	3·25	17
Swanage	49·6	81	43·1	53·3	10·2	48·2	36·6	57·9	21·3	5·0	3·83	16	54·3	81	46·3	57·6	11·3	51·9	39·0	65·1	26·1	4·3	1·67	7	57·1	80	49·9	61·0	11·1	55·5	41·2	68·5	27·3	6·0	3·69	17
Bournemouth ..	50·4	77	42·2	56·1	13·9	49·1	35·2	63·2	28·0	5·3	4·47	20	56·2	75	45·1	61·1	16·0	53·1	36·8	71·8	35·0	4·3	....	..	58·5	80	49·5	63·8	14·3	56·7	40·2	72·5	32·3	5·8	3·46	14
South Bourne ..	49·2	77	42·5	55·1	12·6	48·8	34·9	62·2	27·3	5·9	3·81	18	54·8	74	46·1	59·9	13·8	53·0	36·5	68·7	32·2	4·8	1·24	9	57·6	77	50·2	62·5	12·3	56·4	39·8	70·3	30·5	6·8	3·17	17
Southampton..	50·0	76	40·6	57·3	16·7	49·0	30·0	65·6	35·6	5·9	3·65	21	56·6	69	43·9	63·1	19·2	53·5	34·6	70·4	35·8	6·1	1·73	10	58·0	73	48·1	64·2	16·1	56·1	38·1	72·6	34·5	8·2	2·95	19
Portsmouth ..	50·3	78	37·0	58·3	21·3	47·6	28·1	65·3	37·2	4·8	3·36	20	56·0	72	41·5	64·1	22·6	52·8	31·8	71·8	40·0	4·9	1·23	11	59·3	74	45·6	66·3	20·7	56·0	35·4	73·3	37·9	6·1	2·63	20

Station.	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.								Means.				Extremes in Month.								Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°		In.	
Ventnor	50·1	82	44·6	55·7	11·1	50·2	38·5	62·7	24·2	5·5	3·14	17	55·1	80	48·6	61·0	12·4	54·8	40·9	69·0	28·1	5·8	1·08	8	57·9	79	51·8	63·9	12·1	57·8	41·7	68·5	26·8	5·1	2·29	18
Worthing	50·9	77	43·4	56·1	12·7	49·7	35·2	63·6	28·4	4·8	2·24	15	56·1	75	47·4	60·7	13·3	54·1	38·7	69·5	30·8	4·7	1·19	10	58·9	77	51·2	63·5	12·3	57·3	40·8	69·0	28·2	6·7	2·53	19
Hastings	50·1	76	43·7	56·2	12·3	50·0	37·1	63·0	25·9	5·6	2·70	15	55·6	74	48·4	60·4	12·0	54·4	38·1	66·0	27·9	5·3	1·55	7	57·9	76	51·9	62·2	10·3	57·1	41·6	65·6	24·0	7·3	1·91	16
Margate	49·0	78	43·1	54·1	11·0	48·6	37·0	61·7	24·7	6·3	2·72	17	55·5	75	47·3	60·4	13·1	53·8	40·0	69·4	29·4	5·7	1·14	11	58·1	74	50·2	63·7	13·5	57·0	41·1	72·5	31·4	8·0	2·33	12
Southend	50·4	90	42·5	55·9	13·4	49·2	32·5	67·0	34·5	5·8	1·91	13	57·3	79	46·5	63·5	17·0	55·0	36·4	71·6	35·2	5·0	1·08	6	59·1	79	50·8	65·9	15·1	58·4	41·3	73·6	32·3	7·5	1·94	13
Harestock	48·8	72	39·5	55·7	16·2	47·6	30·2	63·8	33·6	7·1	4·13	19	54·8	67	43·1	61·3	18·2	52·2	33·1	66·1	33·0	6·3	1·96	10	56·5	71	47·7	62·4	14·7	55·0	35·4	69·6	34·2	8·0	3·15	19
Swarraton	48·0	78	39·3	55·8	16·5	47·5	27·9	64·5	36·6	5·9	3·80	16	54·0	73	42·4	62·0	19·6	52·2	32·3	68·5	36·2	6·6	1·73	7	56·3	76	47·5	62·8	15·3	55·2	35·0	69·3	34·3	..	3·31	18
Strathfield Turg	49·4	77	38·7	58·2	19·5	48·4	29·8	64·3	34·5	6·7	3·46	15	56·6	73	43·2	65·7	22·5	54·5	33·3	71·8	38·5	5·9	1·43	8	58·4	75	46·6	65·9	19·3	56·2	36·6	73·9	37·3	8·3	2·08	15
Cranleigh	48·6	83	40·5	55·9	15·4	48·2	30·8	63·5	32·7	6·5	3·05	16	55·0	78	45·2	62·7	17·5	53·9	36·1	69·0	32·9	5·6	1·40	13	57·0	88	48·3	63·8	15·5	56·1	39·1	70·6	31·5	7·8	2·69	20
Tunb. Wells ..	47·7	86	39·7	54·4	14·7	47·0	31·9	61·4	29·5	7·7	3·60	15	54·9	83	44·5	61·2	16·7	52·9	35·9	70·1	34·2	5·6	1·01	9	56·5	88	48·3	62·5	14·2	55·4	39·9	71·1	31·2	7·9	2·96	25
Tunbridge	50·4	75	40·9	56·7	15·8	48·8	33·7	64·3	30·6	5·9	3·05	15	57·6	68	45·6	64·3	18·7	55·0	36·2	73·6	37·4	5·9	·94	7	58·6	73	50·2	64·5	14·3	57·3	42·2	72·3	30·1	7·6	2·99	19
Beddington....	49·6	78	39·2	56·4	17·2	47·8	29·7	64·1	34·4	6·2	2·79	14	56·2	71	43·0	63·8	20·8	53·4	32·0	71·1	39·1	5·4	·92	9	57·6	75	47·7	64·3	16·6	56·0	36·8	71·3	34·5	7·7	2·38	17
Croydon	49·2	74	40·2	55·9	15·7	48·0	32·2	63·2	31·0	7·1	2·97	17	56·1	67	44·4	63·5	19·1	54·0	34·5	71·2	36·7	6·2	·89	8	57·4	73	49·3	63·6	14·3	56·4	40·1	71·5	31·4	8·5	2·31	20
South Norwood.	49·1	79	40·6	56·2	15·6	48·4	31·9	63·3	31·4	6·6	2·77	15	55·7	74	44·9	64·1	19·2	54·5	33·9	72·4	38·5	6·4	·86	8	57·5	75	49·0	63·9	14·9	56·5	40·1	71·6	31·5	7·8	2·15	18
Norwood	49·6	74	40·0	56·4	16·4	48·2	32·5	65·8	33·3	6·5	2·82	16	56·2	67	45·0	64·3	19·3	54·6	32·8	72·8	40·0	5·9	1·03	10	58·2	74	48·8	64·7	15·9	56·8	40·8	72·7	31·9	8·3	2·35	19
Isleworth	49·8	76	41·3	57·2	15·9	49·3	31·9	65·4	33·5	7·5	2·93	17	57·1	68	44·7	65·0	20·3	54·8	34·9	72·5	37·6	5·7	1·14	13	58·8	73	48·7	64·9	16·2	56·8	38·3	73·3	35·0	8·3	2·18	19
Regent's Park..	49·0	77	41·1	56·4	15·3	48·8	32·0	64·0	32·0	..	2·64	14	55·7	69	45·7	64·4	18·7	55·0	37·0	72·2	35·2	..	1·25	11	57·4	77	49·5	64·4	14·9	57·0	41·0	72·5	31·5	..	2·33	21
Finchley	48·4	79	39·2	55·0	15·8	47·1	31·0	62·3	31·3	4·9	3·13	18	54·8	73	43·5	62·5	19·0	53·0	34·3	68·4	34·1	4·0	1·28	12	56·8	81	47·6	63·0	15·4	55·3	39·1	70·1	31·0	5·4	2·35	21
Watford	..	..	..	..	..	..	31·3	..	..	..	3·47	15	55·3	71	44·2	63·4	19·2	53·8	33·0	69·3	36·3	5·8	1·82	11	57·0	76	48·6	63·4	14·8	56·0	39·7	70·3	30·6	8·3	4·02	20
Throcking	47·2	81	38·7	55·5	16·8	47·1	29·2	62·2	33·0	6·4	3·16	16	54·1	79	43·2	62·1	18·9	52·6	33·9	69·5	35·6	6·2	1·08	9	55·9	83	47·2	62·9	15·7	55·1	39·5	71·3	31·8	7·6	2·36	17
Aspley Guise ..	47·7	81	38·7	55·0	16·3	46·9	28·2	64·0	35·8	6·6	3·29	16	55·8	70	42·9	62·6	19·7	52·7	32·0	70·0	38·0	6·7	1·50	11	57·5	77	47·4	63·4	16·0	55·4	40·0	71·7	31·7	8·1	2·50	18
Boston, 4 feet..	46·8	84	40·3	53·4	13·1	46·9	29·9	64·7	34·8	6·3	2·33	16	53·4	75	43·8	60·3	16·5	52·0	34·5	69·3	34·8	4·6	1·67	9	56·3	79	49·0	63·2	14·2	56·1	40·0	70·8	30·8	6·7	2·84	19
„ 170 „ ..	45·2	80	40·5	50·9	10·4	45·7	31·0	61·7	30·7	..	..	..	51·2	77	44·9	57·4	12·5	51·2	37·0	65·1	28·1	..	..	..	54·6	78	48·9	60·6	11·7	54·7	40·0	66·7	26·7	..	..	..
„ 260 „ ..	44·8	..	..	..	..	..	..	..	..	..	·85	..	51·0	..	..	..	..	..	..	..	..	..	1·08	..	53·6	..	..	..	..	..	..	..	..	..	1·07	.
Hillington	48·5	80	39·1	55·3	16·2	47·2	30·1	66·3	36·2	6·9	2·75	17	56·2	73	42·4	62·5	20·1	52·5	31·1	73·2	42·1	7·2	1·56	11	57·6	78	47·4	65·2	17·8	56·3	38·0	73·6	35·6	8·4	4·20	20
Cromer	..	..	..	..	..	..	..	..	..	5·1	2·11	12	..	..	..	..	..	..	..	..	..	3·6	2·10	11	..	..	..	..	..	..	..	..	..	5·8	2·70	14
Somerleyton ..	47·8	80	40·8	53·5	12·7	47·1	32·3	62·2	29·9	6·2	3·02	18	54·3	74	45·1	59·6	14·5	52·4	35·3	69·0	33·7	5·0	1·70	9	56·8	79	49·2	62·7	13·5	55·9	37·1	70·0	32·9	7·6	2·72	14
Lowestoft	47·9	81	41·4	52·1	10·7	46·8	34·7	61·1	26·4	6·7	2·48	13	54·4	79	45·9	57·6	11·7	51·7	35·9	68·0	32·1	5·5	1·96	9	57·1	79	48·9	62·0	13·1	55·5	40·0	69·7	29·7	7·8	3·00	16
Guernsey	50·2	87	45·9	56·0	10·1	51·0	38·8	62·9	24·1	5·9	3·48	17	54·9	85	49·7	61·3	11·6	55·5	44·3	66·5	22·2	5·5	2·36	9	56·9	83	52·2	62·2	10·0	57·2	45·3	69·4	24·1	6·1	2·55	20
Dublin	47·6	76	41·4	52·7	11·3	47·1	31·2	61·7	30·5	6·3	3·53	20	55·2	68	46·3	60·1	13·8	53·2	38·0	66·7	28·7	4·0	1·53	16	56·8	73	49·7	61·8	12·1	55·7	40·4	68·5	28·1	6·8	2·38	25
Killarney	48·1	83	42·0	54·5	14·5	47·3	29·7	60·0	30·3	7·1	6·58	24	54·1	75	43·6	60·3	16·7	51·9	30·9	68·3	37·4	6·3	2·64	13	56·5	84	47·8	61·4	13·6	54·6	38·0	69·0	31·0	7·6	3·50	16

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WITH

REMARKS ON THE WEATHER

FOR THE QUARTER ENDING

SEPTEMBER 30TH, 1882.

BY

WILLIAM MARRIOTT, F.M.S.,

Assistant-Secretary.

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THE METEOROLOGICAL RECORD.

REMARKS

ON THE

WEATHER OVER ENGLAND

FOR THE QUARTER ENDING SEPTEMBER 30TH, 1882.

THE weather during the quarter was cold, dull and unsettled, in fact there was really no bright, warm, summer weather at all.

AIR TEMPERATURE was below the average.

In *July* the mean temperature (mean of maximum and minimum) was 59°·1, and varied from 62°·2 at Southend, 61°·1 at Regent's Park, 60°·9 at Isleworth, 60°·7 at Norwood and Tunbridge, 60°·6 at Strathfield Turgiss and Worthing, 60°·4 at Hastings and Ross, and 60°·3 at Boston and Ventnor, to 54°·8 at Alston, 56°·2 at Buxton, 56°·8 at Stapleton, 57°·0 at Bolton, 57°·1 at Cheadle, 57°·2 at Cramlington and Seathwaite, 57°·4 at Churchstoke, 57°·6 at Macclesfield, and 57°·9 at Scaleby. The weather throughout the month was dull, cold and wet. The maximum temperatures occurred mostly on the 1st, 2nd, 3rd, 29th, and 30th. The highest readings were:—On the 1st, 75°·1 at Leaton, and 74°·9 at Chester; on the 2nd, 77°·1 at Burghill, 75°·1 at Brampford Speke, and 74°·9 at Cheltenham; on the 3rd, 75°·2 at Throcking, 75°·0 at Beddington and Regent's Park, and 74°·8 at Somerleyton; on the 27th, 77°·0 at Watford; on the 28th, 78°·2 at Ross; on the 29th, 76°·7 at Hillington, and 75°·6 at Cullompton; and on the 30th, 77°·7 at Portsmouth, 77°·5 at Southend, 77°·2 at Norwood and Strathfield Turgiss, 76°·2 at Hastings and Isleworth, and 76°·1 at Tunbridge. The minimum temperatures took place mostly on the 1st, 26th, 27th and 31st. The lowest readings were:—On the 1st, 39°·2 at Buxton, 40°·3 at Hodsock, and 43°·0 at South Norwood; on the 12th, 37°·8 at Alston; on the 26th, 35°·2 at Strathfield Turgiss, and 39°·6 at Alston; on the 27th, 38°·0 at Alston, 38°·9 at Hillington, and 40°·0 at Leaton; and on the 31st, 39°·0 at Alston, 40°·4 at Cheltenham, 42°·7 at Burghill, and 43°·0 at Stapleton. Owing to the cloudy state of the sky, the mean daily range of temperature was only 14°·4.

In *August* the mean temperature was 59°·2, and varied from 62°·0 at Portsmouth and Teignmouth, 61°·8 at Southend, 61°·1 at Hastings, 61°·0 at Worthing and Weymouth, 60°·8 at Ilfracombe and Ross, and 60°·6 at Regent's Park, to 54°·1 at Alston, 54°·2 at Dartmoor, 56°·0 at Buxton, 56°·3

at Stapleton, 56°·7 at Bolton, 56°·8 at Cheadle, 56°·9 at Macclesfield, and 57°·8 at Cramlington and Seathwaite. The weather was generally cold throughout the month, but fine and dry from the 1st to the 11th, and wet and unsettled from the 12th to the 31st. The maximum temperatures occurred mostly on the 6th, 9th, 10th and 12th. The highest readings were:—On the 6th, 84°·5 at Portsmouth, 84°·1 at Ross, 83°·7 at Strathfield Turgiss, 81°·5 at Southend, 81°·2 at Teignmouth, 81°·0 at Worthing, and 80°·4 at Norwood; on the 10th, 81°·5 at Alnwick, and 77°·9 at Cramlington; and on the 12th, 81°·6 at Tunbridge, 80°·7 at Helston, 80°·5 at South Norwood, 80°·4 at Isleworth, 80°·3 at Beddington, and 80°·0 at Bude. The minimum temperatures took place on various dates, chiefly the 11th, 16th, and 31st. The lowest readings were:—On the 9th, 39°·7 at Beddington, and 40°·9 at Alston; on the 11th, 41°·0 at Kenilworth, 41°·1 at Buxton, and 41°·2 at Oakamoor; on the 15th, 34°·3 at Alston; on the 16th, 35°·8 at Alston, 40°·1 at Hillington and Hodsock, and 41°·2 at Cramlington; on the 20th, 39°·8 at Alston, and 41°·2 at Oakamoor; on the 26th, 37°·8 at Alston; on the 28th, 40°·0 at Cheltenham; and on the 31st, 38°·3 at Alston, 39°·0 at Scaleby, 39°·6 at Seathwaite, and 40°·0 at Stapleton. The mean daily range was 14°·6.

In *September* the mean temperature was 54°·1, and varied from 57°·4 at Hastings, 57°·2 at Worthing, 57°·1 at Margate, 57°·0 at Ilfracombe, 56°·9 at Ramsgate, 56°·4 at Portsmouth, 56°·3 at Teignmouth, 56°·0 at Lowestoft and Weymouth, 55°·8 at Falmouth, and 55°·6 at Bude, to 49°·8 at Alston, 49°·9 at Buxton, 51°·3 at Churchstoke and Cramlington, 51°·4 at Oakamoor, 52°·2 at Leaton, 52°·3 at Macclesfield, and 52°·4 at Kenilworth. The weather was cold throughout the month. The maximum temperatures occurred mostly on the 2nd, 3rd, 9th and 10th. The highest readings were:—On the 2nd, 70°·9 at Lowestoft, and 70°·8 at Somerleyton; on the 3rd, 79°·6 at Isleworth and Strathfield Turgiss, and 79°·3 at Finchley; on the 4th, 70°·4 at Teignmouth; on the 5th, 69°·1 at Margate and Ramsgate; on the 8th, 70°·0 at Bude and 69°·6 at Ashburton and Maker; on the 9th, 69°·1 at Bournemouth; and on the 10th, 73°·5 at Portsmouth, 71°·8 at Ventnor, and 70°·0 at Bridgetown. The minimum temperatures took place between the 12th and 16th. The lowest readings were:—On the 12th, 28°·7 at Alston, and 32°·5 at Churchstoke; on the 14th, 29°·9 at Bridgetown, 30°·3 at Swarraton, and 31°·4 at Cullompton; on the 15th, 30°·9 at Oakamoor, 31°·2 at Hodsock, 32°·0 at Kenilworth, and 32°·5 at Strathfield Turgiss; and on the 16th, 31°·0 at Buxton, 31°·9 at Burghill, and 33°·1 at Wakefield. The mean daily range of temperature was 15°·1.

Atmospheric Pressure was below the average.

In *July* the mean pressure reduced to sea level was 29·83 ins. The highest readings were in the south-east and the lowest in the north. The maximum occurred in the north on the evening of the 26th, and in the south on the morning of the 27th, the highest being 30·485 ins., at 9 p.m. on the 26th at Dartmoor. The minimum took place generally on the evening of the 6th; the lowest reading, however, was 29·104 ins. at 9 a.m. on the 7th at Cramlington.

In *August* the pressure was higher than in the preceding month, the mean being 29·90 ins. The highest readings were in the south-west, and the lowest in the north-east. The maximum occurred in most districts on the 4th, but in the north-east on the evening of the 9th or morning of the 10th; the highest readings were: 30·392 ins. at 9 p.m. on the 4th, at Dartmoor, and 30·306 ins. at 9 a.m. on the 10th, at Wakefield. The minimum took place on the morning of the 23rd, the lowest being 28·970 ins. at Cramlington.

In *September* the pressure was slightly lower and more equable than in the previous month; the mean being 29·87 ins. The pressure was very uniform, especially over the central and southern districts, and was lowest in the north-west. The maximum occurred generally on the 7th or 8th, the highest being 30·470 ins. at 9 p.m. on the 8th at Churchstoke. The minimum took place in the north on the 2nd, in most other districts on the 27th, and in the east on the 29th. The lowest readings were 29·091 ins. at 9 a.m. on the 2nd at Alnwick; 29·233 ins. at 8 a.m. on the 27th at Babbacombe; and 29·210 ins. at 9 a.m. on the 29th at Lowestoft.

RAINFALL was in excess of the average.

In *July* both the rainfall and the number of rainy days were greatly above the average. The monthly falls varied from 20·71 ins. at Seathwaite, 7·28 ins. at Carmarthen, 7·12 ins. at Stapleton, 6·70 ins. at Bolton, 6·57 ins. at Buxton, 6·44 ins. at St Michael's-on-Wyre, and 6·21 ins. at Ashburton, to 1·71 in. at Southend, 1·75 in. at Strathfield Turgiss, 1·98 in. at Throcking, 1·94 in. at Cromer and South Norwood, 2·01 ins. at Margate, 2·18 ins. at Finchley, 2·18 ins. at Isleworth, and 2·25 ins. at Southbourne. Rain fell on every day in the month. The greatest daily falls occurred on the 6th, 11th, 14th, and 15th. Falls exceeding 1·25 in. were recorded as follows:—on the 4th, 2·10 ins., and on the 5th, 1·40 in. at Seathwaite; on the 6th, 1·53 in. at St. Michael's-on-Wyre; on the 13th, 3·26 ins. at Seathwaite; on the 14th, 2·04 ins. at Dartmoor, 1·74 in. at Seathwaite, and 1·47 in. at Ashburton; on the 16th, 1·33 in. at Dartmoor; and on the 17th, 1·31 in. at Seathwaite. Thunderstorms prevailed in some part of the country almost daily from the 1st to the 26th. Hail occurred on the 6th, 7th, 10th, and 24th.

In *August* the rainfall and the number of rainy days were less than in the preceding month. The monthly falls varied from 8·78 ins. at Seathwaite, 8·29 ins. at Dartmoor, 5·81 ins. at Bolton, 5·46 ins. at Buxton, 5·35 ins. at Carmarthen, and 4·68 ins. at Macclesfield, to 0·89 in. at South Norwood, 0·97 in. at Beddington, 1·02 in. at Southend, 1·11 in. at Norwood, 1·27 in. at Isleworth, 1·28 in. at Croydon, and 1·32 in. at Margate. Scarcely any rain fell from the 3rd to the 11th. The greatest daily falls occurred in the north on the 22nd, and in the south on the 31st. Falls exceeding 1·10 in. were recorded as follows:—on the 20th, 1·41 in. at Seathwaite; on the 21st, 1·21 in. at Seathwaite; on the 22nd, 2·19 ins. at Cramlington, 1·20 in. at Alnwick, 1·16 in. at Seathwaite, 1·14 in. at Cardiff, and 1·12 in. at Stapleton; on the 28th, 1·15 in. at St. Michael's-on-Wyre; and on the 31st, 2·11

ins. at Dartmoor, 1·20 in. at Teignmouth, 1·18 in. at Sidmouth, 1·18 in. at Bude, and 1·12 in. at Babbacombe. Lightning or thunder occurred on the 5th, 9th, 11th to 15th, 19th to 21st, 24th to 26th, and 28th to 30th.

In *September* the rainfall and number of rainy days were about the average. The monthly falls varied from 7·75 ins. at Seathwaite, 5·34 ins. at Bridgetown, 4·86 ins. at Ashburton, 4·52 ins. at Carmarthen, and 4·40 ins. at Babbacombe, to 1·08 in. at Scarborough, 1·24 in. at Alnwick, 1·74 in. at Weymouth, 1·80 in. at Chester, 1·83 in. at Leaton, and 1·86 in. at Hodsock. Rain fell generally from the 1st to the 5th, 19th and 20th, and 26th to 30th. The greatest daily falls occurred on various dates, but in the south generally on the 28th. Falls exceeding 1 in. were registered as follows:—on the 1st, 2·30 ins. at Seathwaite, 1·11 in. at Ashburton, and 1·10 in. at Downside; on the 12th, 1·04 in. at Hillington; on the 19th, 1·08 in. at Strathfield Turgiss, and 1·07 in. at Hastings; on the 24th, 1·21 in. at Bridgetown; on the 26th, 1·03 in. at Helston; and on the 28th, 1·18 in. at Swarraton, 1·15 in. at Harestock, 1·04 in. at Bridgetown, and 1·02 in. at Babbacombe. Thunder or lightning occurred on the 10th to 14th, 17th to 19th, 26th, 27th, and 29th. Hail fell on the 12th to 14th, 26th, and 27th. Snow was observed at Churchstoke on the 13th.

Wind.—In *July* the general direction of the wind was SW till the 24th and variable from the 25th to the 31st. The wind was rather strong throughout the month. Gales or high winds blew on several occasions. In *August* the wind blew mostly from NW from the 1st to the 10th, and from W or SW from the 11th to the 31st. A severe gale occurred on the 23rd. In *September* the direction of the wind was chiefly SW from the 1st to the 5th, light or calm from the 6th to the 18th, NE from the 19th to the 23rd, and rather variable from the 24th to the 30th.

Fog was prevalent on *July* 1st, 2nd, 25th to 30th; *August* 1st, 8th to 10th, 12th, 17th, 18th, 25th, 31st; and *September* 1st, 4th to 27th.

Halos were seen on *July* 1st, 3rd, 10th, 12th, 14th, 24th, 26th; *August* 28th, 30th, 31st; and *September* 6th, 18th, 17th, 19th, 26th, and 28th to 30th.

NOTES BY THE OBSERVERS.

Alnwick.—*July*.—The frequent and often heavy ● retarded the ingathering of the hay harvest, but assisted to make it more weighty, and to establish the turnips and other root crops. Cereals were kept back by the ●.

August.—The hay harvest was completed in the first week; wheat harvest commenced in the second, but owing to the frequent ● in the last fortnight, it was much retarded, though not absolutely stopped. Potato disease was very rife in some fields. Turnips are looking well.

September.—Agricultural work has been pushed forward vigorously, many farmers having completed their harvest, and stored it in capital condition; the crops being larger than was expected. Root crops also are well forward and in good form.

Alston.—*July* 25th.—At 6 p.m. the sky set in very black in the E, when ┬ was heard. At 6.40 p.m. a waterspout was seen in the E, travelling NW, and burst ENE; it was visible for about 5 minutes. After the bursting of the waterspout there was a severe ↯ accompanied by very strong wind, which lasted about an hour and a half. About ½ a mile to the SW and at the commencement of the storm a whirlwind occurred carrying away a quantity of hay from the fields, whilst about 2 miles NE ✳ fell to the depth of a few inches.

BABBACOMBE.—*July* was cold, wet and stormy. The ● was about half as much again as the average. The mean temperature was about 2° below the average. Fine warm weather prevailed on the first 3 days, and from the 28th to the 31st; the remainder of the month was generally cold, showery and unsettled, and very unfavourable for securing the hay crop.

August was a variable month; it was warm and fine till the 12th, but showery and unsettled afterwards. The ● was below the average. No ● was measured in the 18 days ending the 12th, this having been the longest dry period since one of 25 days ending October 9th, 1877. The temperature was about the average.

September was cold and rather wet. The ● was slightly above the average, but fine dry weather prevailed from the 6th to the 11th, and on the 16th and 22nd. The relative humidity and amount of cloud were below their respective averages. The temperature was generally low, especially at night, from the 12th to the 16th.

BEDDINGTON.—*July* was wet, cold, and windy, and was remarkable for the absence of heat. Only twice did the maximum temperature exceed 72°!

August was very cold, the mean temperature here being 59°·2, the same as last year; the coldest August since 1860. The mean temperature of June, July, and August was 58°·3, 2°·5 in defect; June, the coldest since 1871, July since 1879, and August since 1860.

September was very cold, humid, and wet. The maximum temperature did not once reach 70°. The mean temperature of the 4 months June to September was 57°·1, in 1868 it was 62°·4.

BUDE.—*July*.—The amount of ● which has fallen this month has seriously interfered with the hay crop, the bulk of which on the coasts has been entirely spoilt. The wheat also has been much damaged, from want of sunshine, and from continued gloom and wet. Potatoes from the same cause are much diseased.

CHURCHSTOKE.—*July*.—Frequent rain has been very hindering to harvest work; much hay and clover has been damaged, and none carried in good condition until the last few days. Turnips have come up and started well, but grow slowly on account of cold weather. Corn has deteriorated, and harvest is not likely to commence before August 18th. The continued ● has washed much blight off fruit trees, and started them in good growth. Potato disease is still spreading rapidly.

August.—The fine weather in the early part of the month enabled the hay harvest to be completed; the crop is large in quantity and on the whole well harvested. Corn cutting began in the middle of the month, but the work has progressed slowly, and but little has been carried owing to the showery weather. Stock is doing well, and keep is plentiful. Roots are likely to be a fair crop, but not growing fast. Potatoes are suffering much from disease. Peas are not plentiful, and are decaying before the pods are filled. Early pears and plums are ripening, but the crop is very poor.

September.—Although not much ● has fallen, the constant showers have caused the harvest to be very tedious. On many farms the hay and corn harvest has occupied already 14 or 15 weeks, and is not yet completed. The yield of grain is very variable, and in many cases disappointing. Stock is doing well, but requires dry weather. The potato crop is fully half diseased. Fruit trees require more sun to ripen their wood properly.

CRAMLINGTON.—*July*.—The hay harvest is much above the average, and has been well secured notwithstanding the heavy ●; cereals promise to be above the average, and only want sunshine to make harvest early.

August.—Harvesting operations have begun in some parts about here, it only requires sunshine to make them general; wheat promises to be above the average, other crops all look well.

September.—Harvesting operations are just about finished. Wheat and oats are above the average, and have been well got in. Harvest is just one month earlier in this part than last year.

CROYDON.—*July*.—The weather, like that of June, was a source of much anxiety to farmers, as, notwithstanding the steady growth which all farm produce continued to make, the conditions were on the whole undoubtedly unfavourable to the ripening of the grain. The hay harvest was also again much impeded by the almost daily occurrence of ●, and a good deal of hay more or less seriously damaged. In the gardens insect pests were particularly troublesome, especially slugs, snails and earwigs.

August.—Harvest operations were to a certain extent interfered with by the frequent ● of the last 10 days, but as the ● was never very heavy but little damage to the corn appears to have been done by them. Considering the time of year, comparatively little growth went on in the gardens owing to the lightness of ●, the chilled condition of the soil, and the many cold nights which occurred. Slugs, snails and earwigs were again particularly troublesome.

September.—As regards vegetation generally no rapid advance was possible owing to the chilled condition of the soil, the coldness of the air, the very moderate amount of clear sunshine, and the many cold nights. To these causes, and more especially to the cold nights must also be attributed the fact of my rose-plants yielding comparatively but

very few blooms. Quite early on the 15th the ground was white with ⌴, and again on the 23rd there was a slight ⌴. The longest period of anything approaching to calm weather experienced since January occurred during the 12 days ending the 18th, when the average motion of the air at 50 ft. above the ground was only about 4 miles an hour.

CULLOMPTON.—*July*.—Fruit is flavourless. Peas are not good and the pods do not fill. Garden carrots are bad. Conifers and other shrubs are flourishing.

DUBLIN.—*July*.—T showers were of frequent occurrence, and the wind was almost constantly SW or W. Owing to high winds, clouds and showers, very little summer heat was experienced. The mornings were generally fine, then cumuli would form in the forenoon, causing heavy T showers in the afternoon.

August.—Dry fine weather prevailed by day until the 13th, when a ⍂ depression introduced variable weather, and the remainder of the month was cool, windy, cloudy, and often showery.

HILLINGTON.—*July*.—Sunshine was below the average. There was an unusual amount of T, though generally distant. The weather was altogether very favourable to production in this county.

August.—Sunshine was deficient and the temperature was low. Harvest work has been much retarded, but the crops are good.

September was a fine pleasant month, but with no great amount of sunshine. All the root crops are abundant and healthy.

MAKER.—*July*.—Temperature of mud at the bottom of a well began to rise on the 27th, having been practically stationary for 30 days previous; and having only risen 10° in 5 months, as compared with 19° in the same 5 months of 1881, and 15° in 1880.

MARGATE.—*August*.—The harvest generally has all been got in, and the yield is equal to, if not above, the average. Farmers speak most favourably of the whole crop. Hops, cultivated lately in the Isle of Thanet, are decidedly very poor, with but few exceptions.

ST. MICHAEL'S-ON-WYRE.—*July*.—A very difficult hay time, as there were never more than 2 fine days together. The crops of hay were very good all round about; meadows as well as rye grass being very full.

August.—1st.—A high flood in the Wyre to-day, in consequence of heavy ● on the night of July 31st. 16th.—Wheat harvest commenced; but the weather is very much against harvest and the cutting of the second crop of clover. 29th.—Another high flood in the Wyre.

September.—Exceedingly good harvest weather prevailed during the middle of the month, and nearly all the corn was stacked some time before the end. This has been a very bad year for fruit. Damsons are very scarce indeed. Pears and apples are not much better.

SOUTHBOURNE.—*July* was cold and damp, the maximum temperature only twice reaching 70°, and rain falling on 20 out of 31 days. The day temperature was comparatively much colder than the night, the daily range was consequently small.

August was cool, the maximum temperature reaching 70° on five days only. The latter half of the month was unusually windy.

September was rather cool but fine. Notwithstanding the considerable ●, there was only one day, the 1st, without sunshine.

STAPLETON.—*August* 19th.—Commenced cutting wheat.

TEMPERATURE OF THE SOIL AT 9 A.M.

Station.	Depth below the Surface.	July.			August.			September.		
		Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.
		°	°	°	°	°	°	°	°	°
Aspley Guise	3 ins.	63·7	67·4	61·0	61·3	65·8	56·4	55·6	60·3	51·3
Aspley Guise	6 ins.	62·3	65·0	59·9	61·1	64·9	56·6	55·8	60·3	51·3
Babbacombe	6 ,,	62·4	65·8	60·0	62·8	66·4	59·0	57·6	60·8	53·8
Croydon.....	6 ,,	61·8	64·0	58·5	60·3	64·9	55·8	54·5	61·2	47·2
Marlborough	6 ,,	62·2	65·0	59·7	61·6	66·0	57·0	54·9	60·0	50·9
Alnwick.....	1 ft.	61·7	64·0	59·5	62·0	66·0	57·5	55·8	59·5	51·5
Aspley Guise	1 ,,	62·0	64·6	59·8	61·2	64·4	57·2	56·3	60·2	52·1
Babbacombe	1 ,,	62·9	65·5	61·0	63·6	66·9	60·0	58·8	61·2	56·0
Cardiff	1 ,,	60·3	63·0	59·2	61·1	63·3	58·3	56·1	59·5	53·7
Croydon.....	1 ,,	62·0	64·0	59·0	60·9	64·4	57·1	55·6	60·7	50·9
Cullompton	1 ,,	59·8	62·9	58·2	61·5	64·7	58·0	56·0	59·7	53·2
Harestock	1 ,,	58·9	60·7	57·4	59·5	61·4	56·9	55·5	58·8	53·4
Hodsock	1 ,,	60·9	62·6	59·2	60·3	63·5	57·0	55·8	58·9	52·8
Isleworth	1 ,,	61·9	63·6	59·4	61·1	64·1	57·7	56·3	60·7	53·2
Lowestoft	1 ,,	60·9	63·6	59·0	61·3	64·6	56·0	56·5	59·2	52·2
Marlborough	1 ,,	62·9	65·1	61·2	62·4	65·9	58·2	56·4	60·5	53·5
Norwood	1 ,,	61·7	63·7	59·1	60·8	64·0	57·3	55·5	60·1	52·1
Regent's Park	1 ,,	61·6	64·5	58·0	61·3	64·8	57·0	55·4	60·0	52·2
St. Leonard's	1 ,,	61·8	63·5	59·6	61·7	66·6	57·9	58·1	61·0	54·9
Southampton	1 ,,	62·9	64·7	60·9	62·4	64·9	59·2	57·1	61·2	54·4
Strelley	1 ,,	59·0	61·3	57·1	59·0	62·5	55·3	53·5	57·7	50·2
Worthing	1 ,,	63·6	65·5	61·2	63·2	66·5	59·5	57·7	62·2	53·2
Marlborough.....	1½ ft.	62·6	64·0	61·7	62·6	64·8	59·1	57·4	60·2	55·0
Alnwick	2 ft.	61·8	63·0	60·5	62·7	65·0	60·0	58·4	60·5	56·0
Aspley Guise	2 ,,	61·8	63·1	60·4	61·7	63·3	59·2	57·7	60·4	54·7
Harestock	2 ,,	57·1	58·4	56·2	58·3	59·2	56·7	55·4	57·4	54·0
Isleworth	2 ,,	61·1	62·3	59·4	61·3	63·0	59·2	57·5	60·6	54·9
Lowestoft	2 ,,	60·7	63·6	59·5	61·8	64·0	57·8	57·3	59·4	54·3
Marlborough.....	2 ,,	61·2	62·2	60·3	62·0	63·1	59·6	57·8	59·7	55·7
Aspley Guise	4 ft.	58·5	59·6	57·0	59·9	60·4	58·6	57·5	58·6	56·0
Cardiff	4 ,,	55·9	56·6	54·3	57·6	58·2	56·5	56·5	57·7	55·3
Lowestoft	4 ,,	57·5	59·0	56·2	59·1	60·0	57·0	56·5	57·7	55·2
Regent's Park	4 ,,	58·0	61·0	55·5	59·7	60·4	59·0	57·0	58·5	54·0

DURATION OF BRIGHT SUNSHINE.

Station.	Total amount.			Greatest amount on one day.			No. of days on which no Sunshine was registered.		
	July.	Aug.	Sept.	July.	Aug.	Sept.	July.	Aug.	Sept.
	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.			
Aspley Guise..	184	154	133	12·4	12·5	10·0	0	2	4
Blackpool	203	156	126	13·6	11·7	10·3	3	2	4
Buxton	153	116	100	10·3	11·0	9·8	2	2	5
Churchstoke..	163	164	118	12·6	11·9	10·0	2	2	6
Croydon	210	148	112	11·4	11·0	10·0	1	3	2
Cullompton ..	182	189	145	13·0	12·7	10·5	2	1	8
Harestock....	193	191	166	13·1	13·9	11·4	1	2	1
Hillington ..	221	160	127	13·7	12·1	9·7	0	1	4
Hodsock	163	179	109	12·5	13·2	11·1	0	2	3
Llandudno ..	164	131	102	11·6	12·1	9·8	2	3	6
Marlborough .	186	176	141	12·3	13·1	10·1	0	3	4
St. Leonard's	—	170	120	—	13·2	9·7	—	3	2
South Bourne	204	207	157	13·4	13·3	10·8	2	2	1
Strelley	165	172	107	10·5	12·1	10·2	0	2	4

Abstract of Meteorological Observations for the Month of JULY, 1882.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of						Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.															
Alnwick	29·739	59·8	54·8	57·3	49·9	66·7	41·9	27	71·5	2, 14, 29	55·7	52·7	76	86	6·6	5·5	2·81	·64	14	21	0	1	10	0	1	0	2	4	17	15	8	2	13
Cramlington	·741	59·1	55·0	57·0	49·1	65·4	43·2	27	73·0	2	55·3	53·0	77	87	6·7	5·7	3·79	·38	20	24	0	0	7	0	1	3	1	4	5	25	17	5	1
Scaleby.....	·734	59·6	55·6	57·6	50·5	65·3	43·5	31	72·2	1, 2	55·7	53·2	77	84	8·2	6·1	4·98	·64	6	26	0	1	12	1	0	1	1	5	5	27	7	0	16
Scarborough	·779	60·8	57·5	59·2	53·7	65·3	49·4	27	70·8	14	55·9	54·8	72	80	5·5	5·7	2·74	·27	6	23	0	0	2	0	4	0	4	1	9	34	8	2	0
Wakefield....	·794	60·9	58·3	59·6	51·7	67·1	40·5	27	72·8	3	55·8	55·1	71	80	6·8	5·4	2·94	·39	6	27	0	2	8	0	2	1	3	4	17	21	13	1	0
Buxton	·831	58·1	52·4	55·2	48·4	64·1	39·2	1	70·8	29	54·6	50·9	78	90	7·6	6·9	6·57	1·06	2	25	0	0	9	0	0	3	0	3	2	33	8	9	4
Cheadle	·820	57·0	55·5	56·3	49·5	64·7	44·6	10	70·1	2	54·2	52·9	83	83	7·0	6·9	3·86	·58	11	28	0	2	11	0	3	1	0	4	20	17	8	6	3
Llandudno ..	·786	59·8	57·3	58·5	53·8	64·4	49·2	27	70·0	2, 3	56·4	54·8	80	84	7·4	7·0	2·55	·48	6	18	0	2	14	0	5	1	0	0	7	18	27	4	0
Leaton	·823	60·4	55·6	58·0	49·8	67·2	40·0	27	75·1	1	56·9	54·0	79	89	7·4	7·2	3·81	·66	11	27	0	0	11	..	10	0	0	2	10	16	21	3	0
Churchstoke..	·817	59·6	55·0	57·3	49·6	65·2	41·0	27	71·9	2	56·4	53·3	81	88	6·4	6·5	3·19	·56	11	24	0	0	6	2	3	3	0	1	5	25	6	14	5
Cheltenham ..	·842	60·3	57·0	58·6	51·8	67·5	40·4	31	74·9	2	56·2	54·7	76	85	7·5	7·6	3·61	1·15	11	24	0	1	10	0	2	0	0	1	16	28	7	3	5
Carmarthen	·842	61·2	56·3	58·7	51·4	65·1	43·2	27	73·7	1	58·2	54·2	82	86	7·5	6·3	7·28	·81	14	26	0	1	10	0	2	0	2	1	13	26	8	7	3
Dartmoor	....	..	..	..	..	..	44·0	27	..	....	..	..	..	..	..	..	..	2·04	14	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..
Babbacombe..	·890	61·1	55·8	58·4	52·6	65·9	47·0	27	72·7	31	57·1	54·0	76	88	6·8	6·6	3·33	·74	14	17	0	1	11	2	3	3	1	0	5	32	10	8	0
Downside	·857	59·1	55·3	57·2	51·8	64·5	47·9	26	72·4	29	55·7	53·9	79	91	7·6	7·4	4·38	·60	4	17	0	0	14	0	3	3	1	0	11	30	8	6	0
Marlborough	·871	60·6	56·0	58·3	51·1	66·8	44·4	27	73·4	3	56·7	54·4	77	89	8·0	7·0	3·81	·67	11	23	0	0	14	0	2	0	0	0	7	23	1	1	28
Strathfield T.	·886	61·6	57·4	59·5	50·8	70·4	35·2	26	77·2	30	57·4	55·4	76	87	7·4	6·9	1·75	·27	24	16	0	0	12	0	2	1	2	2	7	33	9	5	1
Norwood	·885	61·4	57·8	59·6	52·3	69·1	43·7	1	77·2	30	56·7	54·8	73	81	6·3	5·7	2·33	·53	8	20	0	1	7	0	1	0	3	1	13	21	14	4	5
Croydon	·895	60·5	57·6	59·1	52·5	67·9	44·1	1	75·4	30	56·1	54·6	74	81	8·1	5·9	2·33	·45	8	20	0	0	12	1	1	0	0	1	12	27	7	2	12
South Bourne	·888	59·6	57·8	58·7	54·3	64·6	48·2	26, 31	73·0	30	56·8	55·9	83	88	6·8	7·0	2·25	·33	17	20	0	0	10	3	2	1	2	1	7	26	14	4	5
Margate	·892	60·9	57·0	59·0	52·8	67·1	47·0	27	72·7	30	56·6	54·8	75	86	8·0	5·2	2·01	·36	17	20	0	0	8	0	8	1	0	4	12	25	3	3	6
Hillington ..	·841	61·7	56·3	59·0	50·2	69·8	38·9	27	76·7	29	57·1	54·7	74	89	7·5	7·3	2·77	·63	11	17	0	0	14	0	2	5	2	3	9	34	3	4	0
Lowestoft	·847	61·7	58·2	60·0	52·3	67·1	43·5	27	73·0	14	57·4	55·7	75	84	6·8	6·0	2·82	·74	11	15	0	0	13	0	3	3	2	2	5	24	16	7	0
Dublin	·754	60·1	57·9	59·0	53·9	65·1	47·9	26	70·0	3	55·5	55·2	73	83	7·1	6·6	3·72	·44	1	25	0	0	8	0	3	0	1	0	8	24	20	5	1
Killarney	....	62·9	..	..	..	67·6	..	..	70·5	31	..	..	..	..	6·2	..	3·49	·45	18	20	0	..	..	..	..	..	..	..	..	..	..	..	..
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Alnwick	≡	●▲T	●	●	..	●	●	..	..	..	..	●T	●≡	●	●	●	●	●	●	●	●	●K	●	●	..	..	●	..	..	●	●
Cramlington	≡	●≡	●	●	●K	●K	●K	●▲K	●	●T	..	●K	●	●	●	●	●	●	●	●	●	●T	●T	..	..	..	●	..	..	●	●
Scaleby	..	..	●	●	●T	●	●	●	●	●	●K	●	●	●	●	●	●	●	..	●	..	●	●	●	●	..	●	●	●	●	●
Scarborough	≡	≡	●	●	●K	●K	●T	●T	●T	●K	..	●K	●	●○	●	..	●	..	●K	●	●	●	●K	●K	●	..	●	..	≡	●	●
Wakefield ..	..	●K	●	●	●	●K	●	●K	●	..	●	●K	●	●	●	●	●	●	●	●	●	●	●	●	●	T	..	●	●	..	●	●
Buxton	●	●K	..	●	●K	●	●	●T	..	●T	●	..	●	●	●	●	●	●	●K	●	●	●T	●	●▲K	●	T	..	●	..	..	●	●
Cheadle	●T	●T	●	●	●T	●	●T	●T	●T	●	●	●	●	●	●	●T	●	●	●T	●	●	●	●	●T	●	T	..	●	..	..	●	●
Llandudno ..	●	..	..	●	●	●	..	●	..	..	●	●	●	●	..	●	●	..	..	●	..	●	●	●	..	..	..	●	..	..	●	●
Leaton ...	●≡K	●T	●	●	●	●	●	●≡K	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	..	..	●	●	..	..
Churchstoke	≡K	●≡T	≡T	●	●T	●	●	●T	●T	●T	●	●	●	●T	●	●	●	●T	●	●T	●	●	●	T	●	T	●	..	..	..	●
Cheltenham	●≡T	●T	T	●	●	●	●	●	..	●	●	●	●T	●	●	●	●	..	●	..	●	●	●	●K	..	..	●	●	..	●	●
Carmarthen	..	..	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	..	..	●	●	●	●	..
Dartmoor ..	—	—	—	—	—	—	—	—	—	—	—	●	●	●	●	●	●	..	●	●	●	●	●	●	●	..	●	●	..	..	●
Babbacombe	≡	T	..	●	●	●	●	●	..	●	●	..	●	●	●	●	●	..	..	..	●	●	●	●	●	..	..	..	..	↙	..
Downside ..	≡	≡K	..	●	●T	●	●	●	..	●	..	●	●	●	..	●	●	..	..	●	..	●	●	..	●K	..	●	●	≡	..	..
Marlborough	●T	●T	..	●	●	●	●	●	●	●	●	●	●	●	●	●	●	..	..	●	●	●	●	●	●T	..	●	..	≡	..	..
Strathfield T.	≡	≡T	..	●	●	●	●	..	●	●T	●	●	●	●	..	..	●	..	..	..	●	●	..	●K	●	..	..	≡	≡	●	..
Norwood	≡○ψ	≡	..	●	●	●	●	●	●	●○	●	●○	●	●○	●	..	●	●	..	..	●	●	..	●	●≡	≡	●	..	..	●	..
Croydon	..	..	●○	●	●	●	●	●	●	●	●	●	..	●	●	..	●	●	..	..	●	●	..	●T○	●≡	○	●	..	≡	●≡	..
South Bourne	●≡	≡	..	●	●	●	●	●	●	●	●	..	●	●	..	..	●	..	..	●	●	●	●	●	●	..	●	●	≡	..	..
Margate	..	..	..	●	●	●	..	●	●	●	●	●K	●	●	●K	..	●	●	..	..	●	●	●	●	●	..	●	●	..	..	..
Hillington ..	..	..	..	●	●T	●	●	●K	●T	●T	●	K	●T	..	●	..	●	..	..	..	..	●	●	●K	T	..	●	..	..	●	●
Lowestoft ..	..	..	..	●	●	●▲K	●▲K	●	●T	●▲K	●	..	..	●	●	..	●	●	..	..	..	●	..	●K	..	..	..	..	..	..	●
Dublin	●K	○	●○	●	●	●K	●T	●T	●	●	..	●	●	●	●	●	●T	●	●T	●	●	..	●T	●▲T	..	●○	●	..	●	..	●
Killarney ..	..	..	●	●	●	●	..	●	..	●	●	..	●	●	●	●	●	●	●	●	●	●	..	●	≡	..	●	●	..	..	..

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✱ snow; ▲ hail; ≡ fog; K thunderstorm; T thunder; ↙ lightning; ○ solar halo; ψ lunar halo; Ψ aurora.

Abstract of Meteorological Observations for the Month of AUGUST, 1882.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of				Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.														
Alnwick.....	29·818	59·4	54·9	57·1	50·1	67·8	43·5	26	81·5	10, 11	55·2	52·9	75	87	6·2	5·4	2·57	1·20	22	13	0	2	10	0	2	0	0	2	6	9	15	14	14
Cramlington	·814	58·0	54·6	56·3	49·1	65·4	41·2	16	79·9	10	55·0	53·1	82	90	6·8	5·3	3·70	2·19	22	17	0	2	5	1	8	4	1	1	4	10	15	18	1
Scaleby.....	·833	58·5	55·4	56·9	49·6	66·0	39·0	31	74·5	10	56·1	54·0	85	91	7·6	5·5	3·28	1·00	22	17	0	2	10	2	1	0	0	5	1	5	24	10	5	11
Scarborough..	·829	60·2	57·0	58·6	53·0	64·5	47·7	16	74·7	11	55·7	54·1	74	82	4·9	4·7	1·67	·27	18	16	0	2	0	0	9	3	1	5	1	10	20	13	0
Wakefield....	·859	60·4	57·5	59·0	51·1	67·1	41·0	16	74·8	12	56·2	55·2	75	85	..	..	1·63	·23	22	17	0	..	..	..	5	0	3	4	5	14	22	9	0
Buxton	·904	56·5	53·2	54·9	48·6	63·4	41·1	11	74·4	14	53·8	52·1	83	92	7·7	6·6	5·46	·92	24	18	0	2	15	0	0	1	3	3	2	8	13	29	3
Cheadle.....	·890	56·1	54·8	55·4	50·1	63·5	44·0	24	73·7	12	53·8	53·0	85	88	7·8	6·4	2·68	·66	22	18	0	3	14	2	4	0	3	6	8	5	14	21	1
Llandudno ..	·906	58·6	57·9	58·3	54·1	63·2	49·8	23	70·6	10, 13	55·9	55·8	83	87	8·5	7·6	3·14	·53	28	15	0	2	20	0	4	1	1	2	5	6	28	15	0
Leaton	....	59·6	54·8	57·2	50·1	66·6	40·0	6	78·0	12	..	..	..	..	..	..	2·63	·45	28	17	0	..	..	..	7	3	5	1	6	10	15	15	0
Churchstoke..	·920	58·3	55·7	57·0	49·6	65·2	43·5	16	74·9	9	55·7	53·6	84	86	5·7	6·2	2·00	·53	22	15	0	1	1	3	3	5	2	2	4	7	9	26	4
Cheltenham...	·914	59·7	57·1	58·4	50·1	67·3	40·0	28	78·1	6	56·2	55·1	79	87	7·5	5·8	2·95	·88	25	17	0	1	9	1	4	0	0	4	4	12	23	4	11
Carmarthen ..	·931	60·8	57·0	58·9	52·1	65·9	44·1	28	77·2	9	57·4	55·2	80	89	7·1	6·0	5·35	·98	15	20	0	3	10	1	10	0	3	2	11	4	7	19	6
Dartmoor	·990	55·7	52·6	54·1	48·1	60·2	43·0	24	70·0	9	53·4	51·8	85	94	8·1	7·4	8·29	2·11	31	18	0	1	17	2	2	4	5	4	1	14	12	10	10
Babbacombe..	·974	61·6	57·0	59·3	53·2	67·4	47·9	24	78·2	6	57·1	54·8	74	86	6·8	5·2	2·09	1·12	31	14	0	4	9	3	4	3	6	0	2	11	21	14	1
Downside	·936	58·6	55·9	57·3	52·0	64·2	46·4	24	72·4	9	55·3	54·3	80	89	7·4	5·0	3·87	·71	24	14	0	0	8	2	0	7	0	2	4	20	12	16	1
Marlborough	·939	59·7	56·4	58·1	50·4	66·7	43·0	28	78·7	12	55·8	54·8	77	89	6·8	4·8	2·37	·49	24	13	0	2	5	0	1	0	0	0	1	4	3	11	42
Strathfield T.	·919	61·3	56·6	59·0	50·6	70·4	44·0	31	83·7	6	56·9	54·6	74	87	6·7	4·6	1·74	·44	31	12	0	3	6	0	1	5	0	2	7	13	17	16	1
Norwood	·928	60·7	57·8	59·3	52·2	68·9	42·9	9	80·4	6	56·0	54·7	73	81	7·7	4·3	1·11	·23	22, 31	14	0	1	8	1	5	3	4	1	7	8	20	7	7
Croydon	·937	60·1	57·5	58·8	51·7	67·9	43·8	9	79·4	12	55·5	54·5	73	81	8·5	3·6	1·28	·28	15	13	0	2	7	2	..	..	..	..	..	..	..	..	..
South Bourne	·952	61·1	58·6	59·8	53·0	67·6	46·2	28	79·5	6	56·9	56·2	75	85	6·7	5·2	1·90	·57	31	14	0	3	9	4	3	4	3	1	1	12	20	16	2
Margate	·910	60·9	59·2	60·0	54·1	66·9	47·1	31	77·9	2	57·3	56·5	79	83	7·8	6·1	1·32	·24	25	16	0	1	13	0	8	3	4	1	4	21	12	6	3
Hillington.....	·874	61·0	55·5	58·2	49·2	68·5	40·1	16	79·7	12	57·0	54·0	76	90	7·7	6·9	3·04	·58	16	14	0	0	14	1	2	7	1	4	6	17	6	19	0
Lowestoft	·868	61·7	57·1	59·4	51·9	66·4	42·2	31	76·4	2	57·0	54·7	73	85	6·6	6·2	1·61	·52	22	12	0	3	10	1	4	6	3	4	3	8	21	13	0
Dublin	·914	58·5	57·9	58·2	53·6	64·7	47·9	23	71·4	1	55·6	55·5	82	85	7·1	5·2	1·87	·56	31	11	0	1	8	2	2	1	4	3	5	6	22	15	4
Killarney	29·959	..	..	..	..	66·7	44·7	17	79·3	9	..	..	..	..	..	..	3·36	·65	22	16	0	..	..	..	..	..	..	..	..	..	..	..	..
Columns	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Alnwick	●	..	..	..	..	..	..	..	≡	..	..	..	●ϟ	..	●	●	..	●≡	●	●	..	●	●	≡	≡T	●	..	●ψ	●	≡	●
Cramlington	●	..	..	..	..	..	..	..	..	..	..	..	●T	●T	●	●	..	●	●	●	●	●	●	..	≡	●	●	●	●	●	●
Scaleby	●	..	..	..	..	..	..	..	..	≡	..	..	●	●	●	●	●	..	●	●	●	●	●	●	●	●	..	●	●	●	..
Scarborough	●	..	..	..	..	..	..	..	..	..	..	..	●ϟ	●	●	●	●	●	●	●	..	●	●	●	●	..	..	●	●	..	●
Wakefield	..	..	..	..	..	..	..	..	..	..	..	..	●	●	●	●	●	●	..	●	●	●	●	●	●	●	..	●	●	●	●
Buxton	●≡	..	..	..	..	..	..	..	..	..	..	●	●ϟ	●	●	●	●	●	..	●ϟ	●	●	●	●ϟ	●	●	..	●	●	..	●
Cheadle	●	..	..	..	..	..	..	..	..	..	..	●	●T	●	●T	..	..	●	●	●	●	●	●	●	●	●	..	●T	●	●	●
Llandudno	●	..	..	..	..	..	..	..	..	..	..	●	▲ϟ	●T	●	..	●	●	..	●	..	●	●	●▲	●	●	..	●	●	..	●
Leaton	..	..	..	..	..	..	..	..	..	..	..	●	●	●	●	..	●	●	●	●	..	..	●	●	●	●	●	●	●	●	●
Churchstoke	..	..	..	..	T	..	..	..	≡	..	..	..	●T	●	●	..	●	●	..	●	●	●	●	●	●ϟ	●	●	●	..	..	●
Cheltenham	..	..	..	..	..	..	..	..	T	..	..	●ϟ	●T	●	●	..	●	●	●	●	..	●	●	●	●ϟ	●	..	●	●	●	●
Carmarthen	..	●	..	..	..	..	..	..	≡	..	..	●	●ϟ	●	●	●	●	●	●	●	..	●	●	●	●	●	●	●	●	●	●
Dartmoor	●≡	●	..	..	..	..	..	..	≡	..	..	●≡ϟ	●≡	●≡	●	●	●≡	●≡	..	●	..	●	●≡	●	●	●	..	≡	●	●	●≡
Babbacombe	..	..	..	..	..	..	..	..	..	..	..	≡ϟ	●ϟ	●	●	●	≡	●≡	..	●	..	●	●	●	●	●	..	●	..	●○	●
Downside	≡	●	..	..	..	..	..	..	≡	≡	..	●≡ϟ	●ϟ	●	●	..	..	..	≡	..	●	●	●	●	●	..	..	●	●	●	●
Marlborough	..	..	..	..	..	..	..	≡	..	..	..	●≡ϟ	..	●	●	..	..	●	●	●	..	●	●	●	●ϟ	..	..	●	●	..	●
Strathfield Turgiss	..	..	..	..	..	..	..	..	≡	..	..	●≡ϟ	..	●	●	..	..	..	..	●	..	●	●	●	●	●	..	●	●T	..	●
Norwood	..	●	..	..	≡	≡	≡	≡	≡	≡	..	●≡ϟT	..	●	●	●	..	..	..	●	..	●	●	●	●	●	..	●	●	..	●○
Croydon	..	●	..	..	..	..	..	..	≡	..	..	●≡ϟ	..	●	●	●	..	..	..	●ϟ	ϟ	●	..	●	●	●	..	●	●	..	●
South Bourne	..	..	..	..	..	..	..	..	..	..	..	ϟ	..	●	●	●	●	●	●	●	..	●	●	●	●	..	..	●	●	..	●
Margate	..	..	..	..	..	..	..	●	..	..	..	ϟ	●	..	●	●	●	●	●ϟ	●	..	●	..	●	●	●	..	●	●	●	●
Hillington	●	..	..	..	..	..	..	..	..	..	..	..	ϟ	T	●	●	..	●	●	●	..	●	..	●ϟ	●	●ϟ	..	●	●	●ϟψ	●≡
Lowestoft	..	..	..	..	..	..	..	..	..	..	..	..	..	●	●	..	..	..	●ϟ	●	ϟ	●	..	ϟT	●	●	●	●	●	●	●
Dublin	..	..	..	..	..	..	..	≡	≡	..	..	●ϟ	●≡ϟ	●	●	..	..	○	●	..	..	●	●	●	..	..	..	●	..	●	●
Killarney	..	..	..	..	≡	≡	≡	≡	..	..	≡	≡	●≡	●	●	..	..	●ϟ	●	..	●	●	●	●	●	●	●	●	●T	●	●

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✱ snow; ▲ hail; ≡ fog; ϟ thunderstorm; T thunder; ϟ lightning; ○ solar halo; ψ lunar halo; Ψ aurora.

Abstract of Meteorological Observations for the Month of SEPTEMBER, 1882.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of					Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.															
Alnwick	29·844	52·4	50·4	51·4	45·2	61·2	35·5	12	68·3	5	50·2	48·9	85	89	7·3	5·1	1·24	·25	19	15	0	5	14	0	6	1	1	4	11	5	6	5	21
Cramlington..	·839	52·6	49·8	51·2	44·0	58·7	34·0	12	66·1	5	50·7	48·6	87	91	6·6	5·5	2·10	·49	26	13	0	4	11	1	4	7	1	2	9	12	15	9	1
Scaleby	·828	54·3	51·2	52·8	45·3	61·3	35·0	12	67·8	9	..	..	..	..	7·1	5·2	1·93	·56	14	13	0	5	11	1	3	2	5	9	6	9	2	3	21
Scarborough..	·846	55·3	53·7	54·5	50·1	59·7	43·7	15	66·6	2	52·1	51·4	80	85	6·2	5·3	1·08	·18	12	14	0	5	8	0	9	6	5	7	5	13	6	8	1
Wakefield	·863	53·7	51·7	52·7	44·8	61·7	33·1	16	67·0	16	51·1	49·9	83	88	7·7	7·7	1·96	·34	30	17	0	0	15	0	7	4	1	9	8	14	9	8	0
Buxton	·892	52·9	47·6	50·2	41·0	58·7	31·0	16	64·6	8	50·2	46·7	82	93	7·2	6·1	2·86	·49	27	14	0	2	10	0	0	8	7	4	9	5	9	16	2
Cheadle	·869	52·2	50·9	51·6	45·6	59·6	38·9	15	64·1	8	50·1	49·4	86	89	6·2	5·9	2·16	·34	3	13	0	5	9	2	7	6	4	11	5	9	2	10	6
Llandudno ..	·865	55·4	54·1	54·7	49·2	59·2	42·0	14	67·2	1	52·8	51·9	83	85	6·9	5·7	1·98	·33	17	18	0	4	13	2	7	5	4	3	6	14	12	9	0
Leaton	....	52·9	50·1	51·5	43·3	61·2	31·0	16	66·8	6	..	..	..	..	..	..	1·83	·35	28	19	0	..	..	..	13	6	3	6	6	0	18	3	5
Churchstoke..	·886	52·7	49·5	51·1	42·7	60·0	32·5	12, 13	67·4	1	51·1	48·3	89	91	5·6	4·6	2·54	·57	12	20	1	2	3	1	3	3	1	6	4	18	3	12	10
Cheltenham ..	·868	53·3	50·6	52·0	43·9	61·6	34·0	16	67·4	1	51·4	49·7	87	93	6·6	5·6	3·23	·70	19	14	0	3	9	0	6	2	2	2	5	15	10	5	13
Carmarthen ..	·868	56·1	52·1	54·1	46·0	61·7	34·0	14	67·2	9	53·4	51·1	82	93	6·4	4·4	4·52	·90	1	19	0	3	9	0	6	5	6	2	8	4	7	1	21
Dartmoor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Babbacombe..	·892	56·7	52·2	54·5	47·5	61·8	36·9	14	66·9	3	52·9	50·2	77	86	5·8	5·3	4·40	1·02	28	16	0	7	10	1	8	9	4	2	4	9	13	10	1
Downside	·875	53·7	51·1	52·4	45·2	60·0	37·2	16	64·8	3	51·4	49·8	85	91	5·8	4·4	3·70	1·10	1	15	0	10	9	2	7	15	0	1	3	11	13	8	2
Marlborough	·886	55·1	50·6	52·8	44·6	61·8	33·7	14	66·5	3	52·4	49·6	82	93	6·0	5·0	3·20	·85	19	12	0	9	9	0	3	4	2	1	3	6	0	2	39
Strathfield T.	·882	55·3	51·4	53·3	43·7	64·3	32·5	15	69·6	3	52·9	50·0	84	90	6·2	4·1	2·84	1·08	19	11	0	6	6	0	12	8	3	2	5	13	7	8	2
Norwood	·875	55·2	53·0	54·1	46·7	62·7	33·0	15	68·5	3	52·2	51·1	81	87	6·7	5·5	2·47	·96	28	12	0	2	6	0	7	6	6	3	6	7	9	5	11
Croydon	·881	54·3	51·8	53·0	46·0	62·3	33·6	15	68·7	3	51·6	50·2	82	89	7·6	3·7	2·59	·88	28	11	0	2	5	1	3	7	1	4	3	10	6	1	25
South Bourne	·873	56·4	53·2	54·8	46·9	62·6	35·2	15	66·9	16	53·2	51·3	80	87	4·8	4·3	2·24	·78	28	11	0	8	4	1	13	4	1	4	5	5	6	16	6
Margate	·853	57·3	55·6	56·5	51·8	62·4	40·6	15	69·1	5	54·4	53·5	82	86	6·7	5·7	3·47	·83	11	11	0	2	8	0	6	9	9	4	7	9	7	5	4
Hillington....	·859	56·2	51·1	53·7	45·3	62·7	35·2	15, 30	69·3	2	53·9	50·4	85	95	7·4	6·4	2·86	1·04	12	13	0	2	14	1	4	18	3	6	4	13	3	9	0
Lowestoft ...	·841	57·4	54·6	56·0	49·7	62·3	40·9	14	70·9	2	54·2	52·5	80	86	6·8	6·4	2·32	·66	28	14	0	2	10	0	3	12	6	4	4	10	10	10	1
Dublin	·872	53·0	52·3	52·6	47·7	58·3	39·0	14	69·6	1	51·0	50·5	86	88	6·4	6·1	2·62	·83	24	15	0	5	8	0	6	3	0	2	6	9	15	13	6
Killarney	29·903	53·2	50·5	51·8	44·5	59·2	34·8	14	66·8	9	51·5	49·4	88	92	7·0	6·6	3·37	·41	23	22	0	0	11	2	7	3	2	1	2	6	8	16	15
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

...RVED AT THE STATIONS DURING SEPTEMBER, 1882.

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Alnwick	●	●	..	..	..	..	..	●≡	≡	●	..	..	●	●≡	≡	≡	..	●≡	●	●	●	≡	..	..	●≡	●▲	●≡ϟ	..	●	●
Cramlington	●	●	..	●	..	..	..	..	≡	●	..	●	●	..	..	..	..	..	●	●	..	≡	..	..	●	●	●T	..	●T	●
Scaleby	●	●	●	●	●	..	..	..	..	●	..	..	●	●	..	..	..	..	●	..	..	..	..	..	●	●	●	..	..	●
Scarborough	●	●	●	●	●	..	..	..	..	..	..	●	●	..	..	..	..	..	●	●	..	..	..	..	..	●	..	●ψ	●	●
Wakefield	●	●	●	●	●	..	..	..	..	●	..	●	●	..	..	●	..	..	●ϟ	●	●	..	..	..	..	●ϟ	●T	●	●	●
Buxton	●≡	●	●	..	●	..	..	≡	..	..	..	●	..	..	..	..	..	..	●	●	..	..	..	●	●	●	●	●	●	●
Cheadle	●	●	●	..	●	..	..	..	..	●	..	T	..	●	..	●	..	..	●	●	..	..	..	..	..	●	●T	●	..	●
Llandudno	●	●	●	..	●	..	..	..	..	●	●	●	..	●	..	●	●	●	●	..	..	..	..	●	●	●	●	..	●	●
Leaton	●	●	●	..	●	≡	≡	..	..	●≡	●	..	●Tϟ	●▲Tϟ	..	●	●	..	●	●	●	..	..	●	●	●	●≡	●	..	●
Churchstoke	●	●	●	●	●	..	≡	..	..	..	●	●▲	●▲✱	●	..	●	●	●	●≡	●	..	..	..	●	●	●≡	●	●	..	●
Cheltenham	●	●	●	..	●	..	..	..	..	..	●	●ϟ	..	..	..	..	●	..	●	●	..	..	..	..	..	●	●	●	●ψ	●
Carmarthen	●	●	●	●	●	..	..	..	..	●	..	●	●▲ϟ	●ϟ	..	●	●	..	●	..	..	..	..	●	●	●	●	●	●	●
Dartmoor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Babbacombe	●≡	●	●	..	●	..	..	..	..	..	..	●ϟ	●▲ϟ	●Tϟ	..	..	○	..	●○	●	..	..	●	●	●	●ψ	●▲	●○	○	●
Downside	●	●	●	●	●	..	≡	..	≡	●≡	..	▲	●ϟ	ϟ	≡	..	..	..	●	●	..	..	..	●	..	●≡	●≡	●	●	●
Marlborough	●	●	●	●	●	..	..	..	..	●	..	ϟ	ϟ	T	≡	≡	≡	≡	●≡	●	..	..	≡	..	..	●	●≡	●	..	●
Strathfield T.	●	●	..	●	●	○	..	..	..	●	T	..	..	●	≡	..	..	..	●	..	..	..	..	..	..	●	..	●	●	●
Norwood	●	●	..	≡	●≡	≡○	..	≡	≡	≡	●≡	≡	≡○ϟ	●≡T	≡	≡	○	≡	●≡	●	●	..	≡	≡	≡	●≡ψ	●	●○ψ	ψ	●
Croydon	●	●	..	≡	●≡	..	≡	..	≡	≡	●	≡	≡ϟ	●≡ϟ	≡	≡	≡	≡	●	●	●≡	≡	..	..	..	●	●	●ψ	..	ψ
South Bourne	●≡	●	..	●	●	..	..	..	..	●≡	..	..	ϟ	ϟ	..	..	..	..	●	..	..	..	..	..	..	●	●	●	●	●
Margate	●	..	..	..	●	..	..	..	..	ϟ	●	●	ϟ	Tϟ	●	●	ϟ	●	●	..	●	..	..	..	..	..	●	●ψ	..	..
Hillington	●	●	..	..	●	..	..	..	..	..	●	●	..	≡	..	≡	..	●	●	●	..	..	..	..	..	●	●	●	●	●
Lowestoft	●	●	..	..	●	..	..	..	..	..	●	●	..	●	..	●	..	●	●	..	..	..	..	..	..	●	●	●	●	●
Dublin	●	..	●	..	..	..	≡	○	≡	●	●	●ϟ	●▲Tϟ	●	●	..	●○	..	..	..	..	..	●	●	●○ψ	●	●	○	..	●
Killarney	●	●	●≡	●≡	●≡	≡	..	≡	●	●	●	●	●	..	●	●	●	●	●	..	≡	≡	●	●≡	≡	●≡	●	●○	●	●

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✱ snow; ▲ hail; ≡ fog; ϟ thunderstorm; T thunder; ϟ lightning; ○ solar halo; ψ lunar halo; ψ aurora.

Station.	JULY.												AUGUST.												SEPTEMBER.											
	Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.	Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.								Means.				Extremes in Month.								Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.		°	o/o	°	°	°	°	°	°	°		In.		°	o/o	°	°	°	°	°	°	°		In.	
Alnwick	59·8	76	49·9	66·7	16·8	58·3	41·9	71·5	29·6	6·6	2·81	21	59·4	75	50·1	67·8	17·7	58·9	43·5	81·5	38·0	6·2	2·57	13	52·4	85	45·2	61·2	16·0	53·2	35·5	68·3	32·8	7·3	1·24	15
Cramlington .	59·1	77	49·1	65·4	16·3	57·2	43·2	73·0	29·8	6·7	3·79	24	58·0	82	49·1	65·4	16·3	57·3	41·2	79·9	38·7	6·8	3·70	17	52·6	87	44·0	58·7	14·7	51·3	34·0	66·1	32·1	6·6	2·10	13
Stapleton	58·3	84	49·9	63·6	13·7	56·8	43·0	69·9	26·9	8·6	7·12	26	57·7	90	48·7	64·0	15·3	56·3	40·0	73·8	33·8	8·4	3·66	15	53·8	87	45·1	59·3	14·2	52·2	36·0	66·0	30·0	7·4	2·72	17
Scaleby	59·6	77	50·5	65·3	14·8	57·9	43·5	72·2	28·7	8·2	4·98	26	58·5	85	49·6	66·0	16·4	57·8	39·0	74·5	35·5	7·6	3·28	17	54·3	..	45·3	61·3	16·0	53·3	35·0	67·8	32·8	7·1	1·93	13
Alston	56·4	79	46·3	63·2	16·9	54·8	37·8	69·3	31·5	8·2	5·12	25	55·7	82	45·1	63·1	18·0	54·1	34·3	76·8	42·5	6·7	3·34	19	50·9	85	41·7	57·9	16·2	49·8	28·7	65·8	37·1	6·8	2·92	16
Seathwaite ..	57·2	82	51·7	62·7	11·0	57·2	44·8	71·2	26·4	9·2	20·71	29	57·4	80	51·0	63·7	12·7	57·3	39·6	76·2	36·6	7·7	8·78	21	52·3	84	47·3	59·0	11·7	53·2	37·6	65·9	28·3	7·4	7·75	18
St. Mich.-on-Wyre	59·9	79	50·9	66·1	15·2	58·5	43·2	72·4	29·2	8·3	6·44	24	58·6	83	51·9	65·0	13·1	58·5	41·2	75·2	34·0	8·3	4·10	19	55·5	81	45·1	61·3	16·2	53·2	33·3	65·3	32·0	6·8	1·92	15
Blackpool	59·4	80	52·6	63·4	10·8	58·0	42·3	67·3	25·0	6·9	5·78	25	58·6	81	53·4	62·7	9·3	58·1	43·9	73·3	29·4	6·6	3·96	18	55·4	81	46·6	59·9	13·3	53·2	36·8	65·5	28·7	6·4	2·04	16
Bolton	57·9	80	49·8	64·3	14·5	57·0	44·7	72·0	27·3	8·8	6·70	27	57·0	84	49·8	63·6	13·8	56·7	42·0	73·7	31·7	8·1	5·81	20	52·5	84	45·6	59·7	14·1	52·7	38·0	64·5	26·5	7·6	2·80	16
Scarborough ..	60·8	72	53·7	65·3	11·6	59·5	49·4	70·8	21·4	5·5	2·74	23	60·2	74	53·0	64·5	11·5	58·8	47·7	74·7	27·0	4·9	1·67	16	55·3	80	50·1	59·7	9·6	54·9	43·7	66·6	22·9	6·2	1·08	14
,, (St. Nichs.)	60·0	75	51·4	65·0	13·6	58·2	43·6	70·0	26·4	7·7	2·70	23	58·6	78	51·2	64·2	13·0	57·7	45·0	75·0	30·0	7·0	1·99	17	54·4	83	46·7	59·8	13·1	53·3	37·2	66·0	28·8	6·9	1·15	14
Wakefield	60·9	71	51·7	67·1	15·4	59·4	40·5	72·8	32·3	6·8	2·94	27	60·4	75	51·1	67·1	16·0	59·1	41·0	74·8	33·8	..	1·63	17	53·7	83	44·8	61·7	16·9	53·3	33·1	67·0	33·9	7·7	1·96	17
Hodsock	60·8	73	50·9	67·6	16·7	59·2	40·3	72·8	32·5	7·7	2·41	19	60·3	76	50·2	67·4	17·2	58·8	40·1	76·0	35·9	6·3	2·05	17	54·3	83	43·8	62·2	18·4	53·0	31·2	67·2	36·0	7·1	1·86	15
Macclesfield ..	58·7	78	50·6	64·5	13·9	57·6	44·4	68·1	23·7	6·2	5·27	27	57·0	83	51·0	62·9	11·9	56·9	42·9	73·5	30·6	7·0	4·68	19	52·6	85	45·1	59·5	14·4	52·3	35·7	64·9	29·2	5·7	1·99	15
Buxton	58·1	78	48·4	64·1	15·7	56·2	39·2	70·8	31·6	7·6	6·57	25	56·5	83	48·6	63·4	14·8	56·0	41·1	74·4	33·3	7·7	5·46	18	52·9	82	41·0	58·7	17·7	49·9	31·0	64·6	33·6	7·2	2·86	14
Beacon Stoop..	..	..	..	..	..	..	43·9	65·8	21·9	..	..	..	..	..	..	..	..	..	40·0	68·9	28·9	..	4·53	..	..	..	..	..	..	..	37·2	60·0	22·8	..	3·64	..
Oakamoor	59·1	75	49·0	..	..	..	41·8	..	..	7·9	3·89	23	57·9	80	49·7	..	..	..	41·2	..	..	7·9	3·05	20	54·3	81	42·3	60·4	18·1	51·4	30·9	64·9	34·0	6·7	2·96	15
Cheadle	57·0	83	49·5	64·7	15·2	57·1	44·6	70·1	25·5	7·0	3·86	28	56·1	85	50·1	63·5	13·4	56·8	44·0	73·7	29·7	7·8	2·68	18	52·2	86	45·6	59·6	14·0	52·6	38·9	64·1	25·2	6·2	2·16	13
Belper	58·4	82	51·2	65·8	14·6	58·5	43·7	71·9	28·2	3·8	3·47	23	57·7	84	51·7	65·1	13·4	58·4	43·9	73·6	29·7	5·1	1·74	12	51·9	89	45·2	60·1	14·9	52·6	33·0	64·4	31·4	2·8	1·95	13
Strelley	59·4	78	50·2	67·3	17·1	58·7	43·9	72·5	28·6	6·9	3·07	26	59·1	80	50·0	66·3	16·3	58·2	41·9	76·6	34·7	6·8	1·72	17	53·4	86	44·6	61·3	16·7	52·9	35·9	66·8	30·9	6·6	2·26	14
Llandudno	59·8	80	53·8	64·4	10·6	59·1	49·2	70·0	20·8	7·4	2·55	18	58·6	83	54·1	63·2	9·1	58·7	49·8	70·6	20·8	8·5	3·15	15	55·4	83	49·2	59·2	10·0	54·2	42·0	67·2	25·2	6·9	1·98	18
Chester	61·2	72	51·6	67·8	16·2	59·7	44·5	74·9	30·4	8·5	3·52	25	60·0	76	53·5	66·7	13·2	60·1	46·1	77·8	31·7	8·2	2·53	16	54·8	80	45·8	62·1	16·3	54·0	35·8	67·2	31·4	7·7	1·80	15
Leaton ..	60·4	79	49·8	67·2	17·4	58·5	40·0	75·1	35·1	7·4	3·81	27	59·6	..	50·1	66·6	16·5	58·4	40·0	78·0	38·0	..	2·63	17	52·9	..	43·3	61·2	17·9	52·2	31·0	66·8	35·8	..	1·83	19
Churchstoke ..	59·6	81	49·6	65·2	15·6	57·4	41·0	71·9	30·9	6·4	3·19	24	58·3	84	49·6	65·2	15·6	57·4	43·5	74·9	31·4	5·7	2·00	15	52·7	89	42·7	60·0	17·3	51·3	32·5	67·4	34·9	5·6	2·54	20
Kenilworth ..	59·9	77	50·7	66·8	16·1	58·8	43·8	74·1	30·3	7·1	3·71	20	59·0	78	50·5	65·9	15·4	58·2	41·0	76·5	35·5	7·9	2·22	14	52·9	87	43·8	61·1	17·3	52·4	32·0	66·8	34·8	6·7	3·32	14
Burghill	61·0	76	50·2	68·8	18·6	59·5	42·7	77·1	34·4	7·2	3·81	19	59·8	77	51·0	67·9	16·9	59·4	42·0	77·9	35·9	8·3	2·21	15	54·4	81	44·2	62·4	18·2	53·3	31·9	67·2	35·3	8·0	2·21	16
Ross	61·9	79	51·7	69·1	17·4	60·4	43·7	78·2	34·5	6·2	4·63	25	61·1	79	51·7	70·0	18·3	60·8	43·2	84·1	40·9	7·5	2·37	16	54·6	87	44·8	63·0	18·2	53·9	32·8	67·0	34·2	5·6	3·02	20
Cheltenham	62·3	75	51·8	67·5	15·7	59·7	46·4	74·0	34·5	7·5	3·61	24	59·7	79	50·1	67·3	17·2	58·7	40·0	78·1	38·1	7·5	2·95	17	53·1	87	43·9	61·6	17·7	52·7	34·0	67·4	33·4	6·6	3·23	14

Station.	JULY. Means at 9 a.m. Temperature.	Humidity.	Temperature. Means. Min.	Max.	Range.	Mean.	Extremes in Month. Min.	Max.	Range.	Mean Amount of Cloud at 9 a.m.	Rain. Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Marlborough ..	60·6	77	51·1	66·8	15·7	58·9	44·4	73·4	29·0	8·0	3·81	23
Downside	59·1	79	51·8	64·5	12·7	58·2	47·9	72·4	24·5	7·6	4·38	17
Carmarthen ..	61·2	82	51·4	65·1	13·7	58·2	43·2	73·7	30·5	7·5	7·28	26
Cardiff.....	60·7	78	53·4	66·6	13·2	60·0	46·5	74·0	27·5	..	5·77	24
Weston-s-Mare	60·8	79	53·6	65·1	11·5	59·4	49·6	69·6	20·0	6·0	4·91	23
Ilfracombe ..	60·6	81	55·7	64·0	8·3	59·9	52·3	70·0	17·7	6·9	4·50	23
Bude	59·7	85	53·7	63·4	9·7	58·5	42·1	67·4	25·3	6·7	4·13	21
Helston	59·5	84	53·5	63·4	9·9	58·4	44·9	67·7	22·8	7·3	4·75	22
Falmouth	60·5	79	53·6	64·3	10·7	59·0	49·9	70·6	20·7	7·2	4·49	20
Maker	58·3	87	53·6	63·8	10·2	58·7	47·0	71·7	24·7	6·0	4·29	19
Dartmoor	..	..	..	..	..	..	44·0	..	..	..	..	..
Ashburton	59·2	82	51·9	65·9	14·0	58·9	48·7	74·5	25·8	6·7	6·21	19
Bridgetown....	62·1	74	52·2	67·4	15·2	59·8	41·5	75·6	34·1	6·2	4·31	20
Torquay, C. C.	60·4	78	53·4	65·1	11·7	59·2	47·8	72·6	24·8	7·0	3·38	18
Torquay, R. ..	59·6	78	52·7	64·4	11·7	58·6	50·0	72·6	22·6	7·0	3·06	17
Babbacombe ..	61·1	76	52·6	65·9	13·3	59·3	47·0	72·7	25·7	6·8	3·33	17
Teignmouth, B.	61·2	75	54·1	65·7	11·6	59·9	47·6	70·2	22·6	6·9	3·70	16
Teignmouth, W.	62·7	79	51·2	68·8	17·6	60·0	47·3	74·8	27·5	5·9	3·86	17
Sidmouth	59·9	83	53·2	63·8	10·6	58·5	48·0	69·5	21·5	8·2	3·48	18
Brampford Spk.	61·8	79	52·5	67·3	14·8	59·9	45·0	75·1	30·1	6·7	3·35	20
Cullompton ..	61·0	76	50·9	67·0	16·1	58·9	44·0	75·6	31·6	7·0	4·02	22
Weymouth	60·5	79	54·7	65·2	10·5	60·0	50·5	71·3	20·8	5·6	2·59	16
Swanage	59·4	83	54·0	62·4	8·4	58·2	49·0	68·2	19·2	6·2	2·66	18
Bournemouth	60·6	82	53·5	65·8	12·3	59·6	47·9	74·7	26·8	6·6	3·07	15
South Bourne ..	59·6	83	54·3	64·6	10·3	59·4	48·2	73·0	24·8	6·8	2·25	20
Southampton..	60·5	77	51·4	66·4	15·0	58·9	46·2	74·3	28·1	7·7	2·69	21
Portsmouth ..	62·2	75	48·8	69·4	20·6	59·1	44·0	77·7	33·7	5·8	2·51	21
Ventnor	60·3	82	55·2	65·4	10·2	60·3	50·7	72·0	21·3	7·0	2·75	16
Worthing	61·5	80	55·3	65·8	10·5	60·6	50·4	75·9	25·5	5·9	2·57	19
Hastings	60·5	80	55·9	65·0	9·1	60·4	51·2	76·2	25·0	6·5	2·42	18

Station.	AUGUST. Means at 9 a.m. Temperature.	Humidity.	Temperature. Means. Min.	Max.	Range.	Mean.	Extremes in Month. Min.	Max.	Range.	Mean Amount of Cloud at 9 a.m.	Rain. Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Marlborough ..	59·7	77	50·4	66·7	16·3	58·6	43·0	78·7	35·7	6·8	2·37	13
Downside	58·6	80	52·0	64·2	12·2	58·1	46·4	72·4	26·0	7·4	3·87	14
Carmarthen ..	60·8	80	52·1	65·9	13·8	59·0	44·1	77·2	33·1	7·1	5·35	20
Cardiff.....	60·3	79	53·3	66·8	13·5	60·0	48·2	76·3	28·1	..	6·75	16
Weston-s-Mare	60·2	87	54·6	65·8	11·2	60·2	45·6	78·2	32·6	7·0	4·19	17
Ilfracombe ..	60·4	82	56·9	64·7	7·8	60·8	53·3	76·0	22·7	6·2	3·25	15
Bude	61·0	79	54·6	65·0	10·4	59·8	45·1	80·0	34·9	6·5	3·92	14
Helston	60·9	82	54·0	66·3	12·3	60·2	49·1	80·7	31·6	7·2	2·91	16
Falmouth	61·8	77	55·0	65·6	10·6	60·3	50·0	72·7	22·7	7·0	3·51	16
Maker	59·6	83	54·4	66·6	12·2	60·5	49·0	77·0	28·0	6·3	2·35	15
Dartmoor	55·7	85	48·1	60·2	12·1	54·2	43·0	70·0	27·0	8·1	8·29	18
Ashburton	60·4	78	52·8	66·7	13·9	59·8	47·5	77·9	30·4	6·1	3·79	17
Bridgetown....	62·7	73	52·3	68·7	16·4	60·5	45·2	80·3	35·1	6·5	2·72	16
Torquay, C. C.	61·1	77	54·0	65·6	11·6	59·8	49·3	71·7	22·4	5·2	1·87	13
Torquay, R. ..	60·4	75	53·8	66·3	12·5	60·0	48·2	77·6	29·4	6·9	1·82	13
Babbacombe ..	61·6	74	53·2	67·4	14·2	60·3	47·9	78·2	30·3	6·8	2·09	14
Teignmouth, B.	61·6	77	55·0	67·8	12·8	61·4	49·0	77·2	28·2	6·7	2·11	12
Teignmouth, W.	62·6	73	53·8	70·1	16·3	62·0	46·8	81·2	34·4	6·2	1·97	13
Sidmouth	60·5	80	53·3	65·6	12·3	59·4	48·2	75·0	26·8	8·0	2·97	16
Brampford Spk.	60·9	79	52·7	66·7	14·0	59·7	48·2	75·1	26·9	6·5	2·91	18
Cullompton ..	61·1	78	50·9	67·6	16·7	59·3	45·0	77·1	32·1	6·9	3·59	18
Weymouth	61·2	76	55·2	66·8	11·6	61·0	50·5	76·8	26·3	4·9	2·44	15
Swanage	61·2	76	53·9	65·0	11·1	59·4	48·9	71·9	23·0	6·3	1·75	15
Bournemouth	61·9	77	52·7	67·4	14·7	60·1	47·1	80·0	32·9	5·5	2·60	11
South Bourne ..	61·1	75	53·0	67·6	14·6	60·3	46·2	79·5	33·3	6·7	1·90	14
Southampton..	61·1	74	51·1	68·1	17·0	59·6	44·1	78·5	34·4	7·2	2·04	18
Portsmouth ..	62·3	76	50·5	70·6	20·1	60·5	44·4	84·5	40·1	5·6	1·53	14
Ventnor	61·4	77	55·8	68·2	12·4	62·0	51·4	77·2	25·8	6·7	2·13	17
Worthing	62·2	74	54·0	68·1	14·1	61·0	48·6	81·0	32·4	6·4	2·03	13
Hastings	61·4	74	55·2	67·0	11·8	61·1	49·3	76·3	27·0	6·9	2·54	13

Station.	SEPTEMBER. Means at 9 a.m. Temperature.	Humidity.	Temperature. Means. Min.	Max.	Range.	Mean.	Extremes in Month. Min.	Max.	Range.	Mean Amount of Cloud at 9 a.m.	Rain. Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Marlborough ..	55·1	82	44·6	61·8	17·2	53·2	33·7	66·5	32·8	6·0	3·20	12
Downside	53·7	85	45·2	60·0	14·8	52·6	37·2	64·8	27·6	5·8	3·70	15
Carmarthen ..	56·1	82	46·0	61·7	15·7	53·9	34·0	67·2	33·2	6·4	4·52	19
Cardiff.....	55·2	82	47·2	61·2	14·0	54·2	36·9	66·2	29·3	..	3·94	17
Weston-s-Mare	55·6	91	48·4	61·5	13·1	54·9	39·4	66·2	26·8	5·6	3·00	17
Ilfracombe ..	57·1	87	53·0	61·0	8·0	57·0	46·3	67·5	21·2	6·7	2·50	18
Bude	56·2	82	49·4	61·8	12·4	55·6	38·1	70·0	31·9	6·1	3·77	12
Helston	56·5	82	49·0	60·5	11·5	54·7	39·1	64·8	25·7	7·0	3·94	21
Falmouth	57·4	79	50·4	61·2	10·8	55·8	42·9	65·4	22·5	6·9	4·25	16
Maker	55·3	84	49·0	61·4	12·4	55·2	39·4	69·6	30·2	5·4	4·28	17
Dartmoor	..	..	..	..	..	..	..	..	..	..	.....	..
Ashburton	56·3	79	47·5	61·8	14·3	54·6	39·6	69·6	30·0	..	4·86	15
Bridgetown....	57·3	76	44·2	63·7	19·5	53·9	29·9	70·0	40·1	5·1	5·34	15
Torquay, C. C.	55·9	81	47·9	60·7	12·8	54·3	38·0	69·1	31·1	5·5	3·44	17
Torquay, R. ..	55·8	78	48·2	61·6	13·4	54·9	39·4	67·6	28·2	5·9	3·93	16
Babbacombe ..	56·7	77	47·5	61·8	14·3	54·6	36·9	66·9	30·0	5·8	4·40	16
Teignmouth, B.	55·9	79	48·6	62·8	14·2	55·7	37·6	68·9	31·3	5·1	3·78	13
Teignmouth, W.	58·0	77	48·1	64·6	16·5	56·3	38·5	70·4	31·9	5·2	3·73	15
Sidmouth	55·6	86	47·9	60·6	12·7	54·3	38·8	66·1	27·3	6·1	3·44	18
Brampford Spk.	54·6	84	45·5	60·5	15·0	53·0	34·5	67·3	32·8	6·0	3·81	20
Cullompton ..	55·5	82	44·0	61·7	17·7	52·8	31·4	68·2	36·8	6·2	3·84	17
Weymouth	56·6	77	50·1	62·0	11·9	56·0	42·0	67·3	25·3	3·4	1·74	12
Swanage	57·4	80	49·0	60·9	11·9	55·0	41·5	65·1	23·6	4·3	3·30	11
Bournemouth	56·6	82	46·7	63·3	16·6	55·0	36·8	69·1	32·3	5·1	2·65	9
South Bourne ..	56·4	80	46·9	62·6	15·7	54·8	35·2	66·9	31·7	4·8	2·24	11
Southampton..	56·1	80	45·8	63·3	17·5	54·6	32·9	68·4	35·5	6·0	2·20	12
Portsmouth ..	57·0	80	47·0	65·7	18·7	56·4	40·0	73·8	33·8	4·7	2·10	13
Ventnor	58·3	85	51·9	64·3	12·4	58·1	44·2	71·8	27·6	5·3	2·59	11
Worthing	58·0	77	50·1	64·2	14·1	57·2	40·5	68·8	28·3	5·1	2·69	11
Hastings	57·7	81	51·7	63·0	11·3	57·4	44·4	67·0	22·6	5·6	3·36	15

Abstract of Climatological Observations for the Quarter ending SEPTEMBER 30th, 1882.

Station.	JULY. Means at 9 a.m. Temperature.	Humidity.	Temperature. Means. Min.	Max.	Range.	Mean.	Extremes in Month. Min.	Max.	Range.	Mean Amount of Cloud at 9 a.m.	Rain. Amount.	No. of Days.	AUGUST. Means at 9 a.m. Temperature.	Humidity.	Temperature. Means. Min.	Max.	Range.	Mean.	Extremes in Month. Min.	Max.	Range.	Mean Amount of Cloud at 9 a.m.	Rain. Amount.	No. of Days.	SEPTEMBER. Means at 9 a.m. Temperature.	Humidity.	Temperature. Means. Min.	Max.	Range.	Mean.	Extremes in Month. Min.	Max.	Range.	Mean Amount of Cloud at 9 a.m.	Rain. Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.		°	o/o	°	°	°	°	°	°	°		In.		°	o/o	°	°	°	°	°	°	°		In.	
Ramsgate	..	..	..	..	..	..	..	..	..	..	..	..	60·9	79	53·8	67·1	13·3	60·5	46·8	79·2	32·4	7·0	1·63	14	57·6	82	51·1	62·8	11·7	56·9	39·2	69·1	29·9	6·5	3·15	13
Margate	60·9	75	52·8	67·1	14·3	59·9	47·0	72·7	25·7	8·0	2·01	20	60·9	79	54·1	66·9	12·8	60·5	47·1	77·9	30·8	7·8	1·32	16	57·3	82	51·8	62·4	10·6	57·1	40·6	69·1	28·5	6·7	3·47	11
Southend	62·8	84	54·1	70·4	16·3	62·2	46·6	77·5	30·9	6·6	1·71	17	62·4	89	53·9	69·6	15·7	61·8	46·5	81·5	35·0	7·3	1·02	9	57·5	90	49·4	..	..	..	40·3	..	..	6·3	2·73	10
Harestock	59·9	73	51·3	65·9	14·6	58·6	46·4	72·2	25·8	7·7	2·99	18	60·2	70	51·5	66·7	15·2	59·1	45·2	78·7	33·5	7·3	1·90	14	55·3	76	45·4	62·0	16·6	53·7	33·4	66·0	32·6	5·8	3·26	11
Swarraton	59·4	80	51·3	65·9	14·6	58·6	44·6	72·6	28·0	6·7	3·09	19	59·3	78	50·5	66·4	15·9	58·4	42·0	78·5	36·5	7·1	1·67	11	54·4	84	43·9	62·1	18·2	53·0	30·3	67·0	36·7	6·1	3·12	10
Strathfield Turg	61·6	76	50·8	70·4	19·6	60·6	35·2	77·2	42·0	7·4	1·75	16	61·3	74	50·6	70·4	19·8	60·5	44·0	83·7	39·7	6·7	1·74	12	55·3	84	43·7	64·3	20·6	54·0	32·5	69·6	37·1	6·2	2·84	11
Cranleigh	60·1	83	51·4	66·9	15·5	59·1	46·4	73·9	27·5	7·1	3·18	21	59·7	79	51·3	67·4	16·1	59·4	45·3	78·9	33·6	7·6	1·47	14	55·4	85	47·1	62·5	15·4	54·8	38·2	67·9	29·7	6·4	2·78	15
Tunb. Wells ..	58·7	90	51·4	65·5	14·1	58·4	45·9	74·1	28·2	7·1	3·29	22	58·6	91	51·4	65·9	14·5	58·7	45·9	78·1	32·2	7·6	2·04	14	54·6	87	47·2	60·7	13·5	53·9	38·9	68·0	29·1	7·5	3·16	16
Tunbridge	61·2	77	53·0	68·4	15·4	60·7	46·0	76·1	30·1	6·3	2·87	19	..	..	..	..	..	..	43·5	81·6	38·1	7·6	1·52	12	55·7	85	46·8	62·4	15·6	54·6	33·3	68·9	35·6	7·2	2·69	13
Beddington....	61·0	75	51·4	68·4	17·0	59·9	44·4	75·0	30·6	6·5	2·37	19	60·3	75	50·4	68·0	17·6	59·2	39·7	80·3	40·6	7·5	·97	12	54·5	84	44·7	62·5	17·8	53·6	32·9	68·3	35·4	6·7	3·08	10
Croydon	60·5	74	52·5	67·9	15·4	60·2	44·1	75·4	31·3	8·1	2·33	20	60·1	73	51·7	67·9	16·2	59·8	43·8	79·4	35·6	8·5	1·28	13	54·3	82	46·0	62·3	16·3	54·2	33·6	68·7	35·1	7·6	2·59	11
South Norwood.	60·4	77	52·5	67·8	15·3	60·1	43·0	75·1	32·1	7·0	1·94	20	59·9	76	52·2	67·8	15·6	60·0	43·7	80·5	36·8	7·9	·89	10	54·7	84	46·6	62·6	16·0	54·6	33·4	68·2	34·8	6·6	2·66	10
Norwood	61·4	73	52·3	69·1	16·8	60·7	43·7	77·2	33·5	6·3	2·33	20	60·7	73	52·2	68·9	16·7	60·5	42·9	80·4	37·5	7·7	1·11	14	55·2	81	46·7	62·7	16·0	54·7	33·0	68·5	35·5	6·7	2·47	12
Isleworth	62·2	74	52·5	69·3	16·8	60·9	44·2	76·2	32·0	7·1	2·18	20	61·6	75	51·7	69·1	17·4	60·4	42·3	80·4	38·1	8·3	1·27	14	55·6	83	45·6	63·9	18·3	54·8	35·1	69·6	34·5	6·1	2·31	12
Regent's Park..	60·7	73	53·0	69·0	16·0	61·0	45·0	75·0	30·0	..	3·05	17	60·2	75	52·5	68·8	16·3	60·6	44·5	80·0	35·5	..	1·67	11	55·4	82	47·4	63·1	15·7	55·3	38·0	69·0	31·0	..	2·55	10
Finchley	59·5	79	50·9	67·6	16·7	59·3	45·0	74·4	29·4	5·1	2·13	21	59·3	78	50·5	67·1	16·6	58·8	42·0	78·3	36·3	7·6	1·66	16	54·8	84	45·3	62·2	16·9	53·7	33·4	69·3	35·9	5·9	2·51	14
Watford	60·0	79	52·5	67·9	15·4	60·2	45·9	77·0	31·1	7·4	2·39	23	59·8	79	51·5	66·8	15·3	59·2	42·4	77·9	35·5	7·9	1·79	13	54·2	86	45·2	62·8	17·6	54·0	33·8	67·9	34·1	5·5	2·33	14
Throcking	59·6	78	50·7	67·6	16·9	59·1	41·3	75·2	33·9	6·8	1·93	21	58·9	80	51·0	66·7	15·7	58·9	44·5	77·6	33·1	7·2	1·85	13	53·4	89	46·0	61·0	15·0	53·5	39·4	69·0	29·6	5·8	2·02	12
Aspley Guise ..	61·0	78	51·3	68·1	16·8	59·7	45·8	74·9	29·1	7·2	2·66	20	60·4	78	50·9	67·1	16·2	59·0	42·5	78·7	36·2	7·9	1·50	13	55·7	84	45·3	62·4	17·1	53·9	37·0	67·2	30·2	5·8	2·55	12
Boston, 4 feet..	60·8	73	52·2	68·3	16·1	60·3	43·9	72·1	28·2	6·6	2·57	18	59·4	78	52·0	66·4	14·4	59·2	44·2	76·6	32·4	6·5	2·22	13	54·3	85	47·4	61·3	13·9	54·3	37·8	68·6	30·8	5·8	3·41	15
„ 170 „ ..	58·6	78	52·6	65·4	12·8	59·0	47·1	70·8	23·7	..	..	..	57·7	83	52·6	63·9	11·3	58·3	45·0	74·4	29·4	..	..	..	53·1	88	48·6	59·5	10·9	54·0	41·9	66·1	24·2	..	..	..
„ 260 „ ..	57·2	..	..	..	..	..	..	..	..	..	1·39	..	56·4	..	..	..	..	..	..	..	..	..	1·21	..	52·2	..	..	..	..	..	..	..	..	..	1·93	..
Hillington	61·7	74	50·2	69·8	19·6	60·0	38·9	76·7	37·8	7·5	2·77	17	61·0	76	49·2	68·5	19·3	58·8	40·1	79·7	39·6	7·7	3·04	14	56·2	85	45·3	62·7	17·4	54·0	35·2	69·3	34·1	7·4	2·86	13
Cromer	..	..	..	..	..	..	..	..	..	6·6	1·94	15	..	..	..	..	..	..	..	..	..	6·9	1·59	14	..	..	..	..	..	..	..	..	..	6·1	2·88	15
Somerleyton ..	61·3	76	51·6	67·9	16·3	59·8	44·2	74·8	30·6	6·0	2·74	18	60·9	75	51·4	66·9	15·5	59·1	41·2	73·8	32·6	6·3	1·83	12	56·8	81	49·0	62·0	13·0	55·5	40·7	70·8	30·1	6·2	2·43	12
Lowestoft	61·7	75	52·3	67·1	14·8	59·7	43·5	73·0	29·5	6·8	2·82	15	61·7	73	51·9	66·4	14·5	59·1	42·2	76·4	34·2	6·6	1·61	12	57·4	80	49·7	62·3	12·6	56·0	40·9	70·9	30·0	6·8	2·32	14
Guernsey	59·6	86	55·0	65·1	10·1	60·0	52·0	68·4	16·4	7·2	2·83	17	61·2	82	56·0	66·5	10·5	61·3	51·4	76·4	25·0	6·3	2·65	19	57·8	82	52·3	63·3	11·0	57·8	43·8	67·9	24·1	6·4	3·84	19
Dublin	60·1	73	53·9	65·1	11·2	59·5	47·9	70·0	22·1	7·1	3·72	25	58·5	82	53·6	64·7	11·1	59·2	47·9	71·4	23·5	7·1	1·87	11	53·0	86	47·7	58·3	10·6	53·0	39·0	69·6	30·6	6·4	2·62	15
Killarney	62·9	..	..	67·6	..	..	..	70·5	..	6·2	3·49	20	..	..	..	66·7	..	..	44·7	79·3	34·6	..	3·36	16	53·2	88	44·5	59·2	14·7	51·9	34·8	66·8	32·0	7·0	3·37	22

PUBLICATIONS
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1st,	1851	0	6	6th,	1856	2	6
2nd,	1852	0	6	7th,	1857	2	6
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METEOROLOGICAL SOCIETY,

WITH

REMARKS ON THE WEATHER

FOR THE QUARTER ENDING

DECEMBER 31ST, 1882.

BY

WILLIAM MARRIOTT, F.M.S.,

Assistant-Secretary.

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THE METEOROLOGICAL RECORD.

REMARKS

ON THE

WEATHER OVER ENGLAND

FOR THE QUARTER ENDING DECEMBER 31ST, 1882.

THE weather throughout the quarter was dull, rough and wet, the rainfall in October being very heavy, thereby causing serious floods in many places. On October 24th a sudden and destructive storm passed across the country in a North-easterly direction. December was very damp and foggy; and during the last week the temperature was greatly above the average.

AIR TEMPERATURE was above the average.

In *October* the mean temperature (mean of maximum and minimum) was 50°·3, and varied from 54°·3 at Ventnor, 53°·6 at Hastings, 53°·5 at Ilfracombe, 53°·1 at Weymouth, 52°·9 at Margate, 52°·8 at Falmouth, and 52°·6 at Ramsgate, Teignmouth and Worthing, to 45°·8 at Alston, 46°·7 at Oakamoor, 46°·9 at Buxton, 47°·5 at Cheadle, 47°·6 at Churchstoke and Leaton, and 48°·0 at Strelley. The weather was dull, rough and wet throughout the month, and mild from the 1st to the 21st, but cold from the 22nd to the 31st. The maximum temperatures occurred on the 1st. The highest readings were:—71°·7 at Finchley, 71°·2 at Llandudno, 70°·1 at Hillington and Isleworth, 69°·4 at Regent's Park, 69°·2 at Strathfield Turgiss, 68°·8 at Chester and Wakefield, 68°·7 at Norwood and Boston. The minimum temperatures took place generally on the 26th. The lowest readings were:—24°·6 at Alston, 25°·6 at Leaton, 26°·0 at Kenilworth, 26°·2 at Oakamoor, 27°·1 at Finchley, 27°·4 at Burghill, 27°·6 at Cullompton, 27°·7 at Strathfield Turgiss, and 27°·9 at Cheadle. The mean daily range of temperature was 11°·4.

In *November* the mean temperature was 43°·8, and varied from 48°·2 at Ilfracombe, 48°·0 at Helston, 47°·5 at Ventnor, 47°·0 at Falmouth, 46°·7 at Weymouth, 46°·5 at Bude, 46°·4 at Torquay, and 46°·2 at Maker, to 35°·9 at Alston, 38°·2 at Buxton, 38°·5 at Stapleton, 38°·6 at Scaleby, 39°·6 at Cramlington, 40°·2 at Alnwick, and 40°·5 at Macclesfield. The weather was fine and mild during the first part of the month, but rather changeable during the latter part. The maximum temperatures occurred generally on the 5th. The highest readings were:—On the 1st, 60°·1 at Ventnor, and 60°·0 at Portsmouth; on the 5th, 62°·0 at Teignmouth, 61°·0

at Regent's Park, 60°·8 at Helston and Watford, 60°·8 at Norwood and Strathfield Turgiss, 60°·2 at Croydon, 60°·1 at Isleworth, and 60°·0 at Wakefield; and on the 6th, 64°·1 at Margate. The minimum temperatures took place on the 18th. The lowest readings were :—16°·4 at Alston, 19°·6 at Kenilworth, 20°·3 at Finchley, 20°·4 at Buxton, 20°·5 at Aspley Guise and Oakamoor, 20°·7 at Hodsock, 21°·0 at Strelley, 21°·1 at Swarraton, and 21°·2 at Leaton and Strathfield Turgiss. The mean daily range of temperature was 10°·3.

In *December* the mean temperature was 39°·6, and varied from 45°·1 at Helston, 44°·8 at Falmouth and Ilfracombe, 43°·9 at Ventnor, 43°·4 at Teignmouth, 43°·2 at Maker, Torquay and Weymouth, 43°·1 at Sidmouth, and 42°·9 at Babbacombe, to 31°·7 at Alston, 33°·9 at Buxton, 34°·6 at Stapleton, 35°·1 at Alnwick and Cramlington, 35°·6 at Scaleby, and 36°·2 at Strelley. The weather was dull and damp throughout the month, cold from the 1st to the 15th, and mild from the 16th to the end of the month, especially from the 25th to the 31st. The maximum temperatures occurred between the 26th and 30th. The highest readings were :—On the 26th, 59°·1 at Watford, and 56°·2 at Teignmouth; on the 27th, 58°·0 at Cullompton, 57°·8 at Regent's Park, 57°·2 at Strathfield Turgiss, and 57°·0 at Isleworth; on the 28th, 57°·1 at Burghill and South Norwood; and on the 30th, 57°·0 at Sidmouth. The minimum temperatures took place on the 11th and 12th. The lowest readings were :—On the 11th, 5°·0 at Alston, 11°·2 at Oakamoor, 11°·8 at Marlborough, 12°·0 at Leaton, 13°·4 at Downside, and 14°·0 at Cranleigh; and on the 12th, —4°·0 at Buxton, 8°·0 at Alston, 7°·7 at Hodsock, 10°·7 at Churchstoke, 11°·5 at Belper, 12°·9 at Wakefield, 13°·5 at Cheadle, and 13°·9 at Aspley Guise. The mean daily range of temperature was 8°·6.

Atmospheric Pressure was below the average.

In *October* the mean pressure, reduced to sea level, was 29·84 ins. There was but little difference in the mean pressure for the month, the highest readings however being in the central districts. The maximum occurred in the South on the 4th, and in the North on the 5th, the highest reading being 30·648 ins., at 9 p.m. on the 4th at Llandudno. The minimum took place on the 22nd in the North and North-west, and in the other districts on the 24th. The lowest readings were 29·057 ins. at 9 p.m. on the 22nd at Cramlington, and 28·775 ins. at 3.20 p.m. on the 24th at Hillington.

In *November* the pressure was subject to considerable oscillation; the mean was 29·67 ins. The highest readings were in the South and South-west, and the lowest in the North. The maximum occurred in the North generally on the 18th, and in the other districts on the 28th, the highest readings being 30·297 ins. at 9 p.m. on the 18th at Alnwick, and 30·267 ins. at 6 p.m. on the 28th at Babbacombe. The minimum took place in most districts on the evening of the 8th, but in the South-east on the morning of the 16th, the lowest readings being 28·840 ins. at 9 p.m. on the 8th at Alnwick, and 29·033 ins. at 9 a.m. on the 16th at Margate.

In *December* the pressure was below the average, the mean being 29·66 ins. The highest readings were in the South, and the lowest in the North. The maximum occurred on the morning of the 20th, the highest reading being 30·354 ins. at 9 a.m. at Lowestoft. The minimum took place mostly in the Northern districts on the 4th, and in the Southern on the 5th, the lowest reading being 28·889 ins. at 9 p.m. on the 4th at Scarborough.

RAINFALL was considerably in excess of the average.

In *October* both the rainfall and number of rainy days were greatly above the average. The monthly falls varied from 8·85 ins. at Seathwaite, 8·47 ins. at Ashburton, 8·46 ins. at Worthing, 8·33 ins. at Cardiff, 8·17 ins. at Carmarthen, 8·00 ins. at Ventnor, 7·84 ins. at Hastings, and 7·78 ins. at Bournemouth, to 2·46 ins. at Chester, 2·64 ins. at Llandudno, 3·09 ins. at Cramlington, 3·54 ins. at Alnwick, 3·78 ins. at Macclesfield, and 4·00 ins. at Blackpool. Rain fell on every day in the month, the fall being heaviest in the South and South-east. The greatest daily falls occurred on the 15th, 16th, 21st, 23rd and 24th. Falls exceeding 1·50 in. were recorded as follows:—On the 15th, 2·55 ins. at Worthing, 1·78 in. at Harestock, 1·69 in. at Southampton and Weymouth, 1·57 in. at Ventnor, and 1·54 in. at Portsmouth; on the 21st, 1·73 in. at Tunbridge; on the 23rd, 1·64 in. at Cardiff, and 1·57 in. at Sidmouth; and on the 24th, 1·66 in. at Hodsock. Thunderstorms prevailed on the 7th, 8th, 11th, 20th, and 22nd to 27th. Snow fell at several places on the 24th. Hail occurred on the 16th, and 21st to 25th.

In *November* both the rainfall and number of rainy days were large, in the West and South-west, but about the average in the other districts. The monthly falls varied from 18·33 ins. at Seathwaite, 9·25 ins. at Buxton, 8·07 ins. at Bolton, 7·77 ins. at Falmouth, 7·54 ins. at Ashburton, 6·66 ins. at Carmarthen, and 6·68 ins. at Alston, to 1·92 in. at South Norwood, 2·15 ins. at Beddington, 2·16 ins. at Regent's Park, 2·24 ins. at Croydon, 2·46 ins. at Isleworth, 2·68 ins. at Hodsock, 2·86 ins. at Burghill, and 2·93 ins. at Southend. The greatest daily falls occurred in the extreme North-west on the 3rd, in the South-east on the 15th, and in the other districts on the 6th. At Seathwaite amounts exceeding 1 in. were measured eight times during the month, the greatest being 2·49 ins. on the 3rd. Falls exceeding 1 in. were recorded at other stations as follows:—On the 3rd, 1·39 in. at Stapleton, on the 6th, 1·28 in. at Ashburton, 1·23 in. at Cromer, 1·17 in. at Ross, 1·08 in. at Bridgetown, and 1·02 in. at Hillington; on the 12th, 1·14 in. at Bridgetown; on the 15th, 1·09 in. at Southend; and on the 22nd, 1·06 in. at Buxton. Thunderstorms were experienced on the 4th, 7th to 9th, and 16th. Hail occurred daily in some part of the country from the 7th to the 30th. Snow fell on the 8th to 11th, 13th, 15th to 21st, 24th, and 26th to 30th.

In *December*, although the rainfall was not as great as in the preceding month, the number of rainy days was above the average. The monthly falls varied from 11·93 ins. at Seathwaite, 9·33 ins. at Falmouth, 8·58 ins. at Beacon Stoop, 8·24 ins. at Helston, 7·67 ins. at Ashburton, 7·12 ins. at Bux-

ton, and 7·08 ins. at Oakamoor, to 1·60 in. at South Norwood, 1·83 in. at Beddington, 2·02 ins. at Portsmouth, 2·15 ins. at Croydon, 2·19 ins. at Strathfield Turgiss, and 2·22 ins. at Isleworth. The greatest daily falls occurred mostly on the 7th, 12th, and 25th. Falls exceeding 1 in. were recorded as follows:—On the 2nd, 1·33 in. at Seathwaite; on the 4th, 1·02 in. at Oakamoor; on the 6th, 1·08 in. at Scarborough; on the 12th, 1·19 in. at Falmouth, and 1·09 in. at Helston; on the 20th, 1·46 in. at Seathwaite; on the 25th, 1·15 in. at Downside, and 1·04 in. at Cheadle and Oakamoor; on the 28th, 1·96 in. at Seathwaite; and on the 31st, 1·39 in. at Seathwaite. Snow fell on the 2nd to 10th, 12th to 16th, 20th, 21st, 24th to 27th, 30th and 31st. Hail occurred on the 1st, 4th to 9th, and 21st to 23rd.

Wind.—In *October* the general direction of the wind was South-west on the 1st to 3rd, 19th to 26th, 30th and 31st, North-east on the 5th to 8th, 14th, 17th, 27th and 28th, North-west or variable on the other days. A severe gale was experienced over the greater part of the country on the 24th, owing to the passage of a deep and rapidly moving cyclone from South-west to North-east. (A very destructive Southerly gale occurred over the West of Ireland and Scotland on the 1st.) In *November* West-south-west winds prevailed from the 1st to the 11th, North or variable winds from the 12th to 21st, West-south-west from the 23rd to 25th, and North-west from the 26th to 30th. Gales or strong winds occurred on several occasions. In *December* the direction of the wind was variable on the 1st and 2nd, South-west on the 3rd and 4th, North-west, North-east or variable from the 5th to 15th, South-east from the 16th to 19th, and South-west from the 20th to 31st. Gales or strong winds occurred on the 5th, 6th, 7th, and 26th to 30th.

Fog was prevalent on *October* 4th to 14th, 16th to 21st, 25th to 27th; *November* 1st, 6th, 7th, 10th to 18th, 20th, 21st, and 28th to 30th; and *December* 1st to 3rd, 6th to 20th, 22nd to 25th, 27th, 30th and 31st.

Halos were seen on *October* 5th, 9th, 15th, 23rd to 26th, 29th, and 31st; *November* 1st to 3rd, 7th, 8th, 11th, 16th to 25th, 28th and 29th; and *December* 11th, 12th, 16th, 17th, 21st to 24th, and 30th.

Aurora was observed on *October* 2nd; *November* 12th, 13th, 14th, 17th, and 25th.

NOTES BY THE OBSERVERS.

Babbacombe.—*October* was a very wet and rather cold month. The ● was more than half as much again as the average. The temperature was slightly below the average.

November was wet and stormy, with continual variations of temperature and pressure, but much less cloud than usual. The ● was slightly, and the number of wet days greatly, above the average, but the relative humidity was below the mean. The temperature was slightly below the average. A lunar rainbow was observed on the 19th.

December was a very damp, dull and gloomy month, with an average temperature and ●, but an excess of wet days. It was the most damp and sunless of the past seven Decembers.

Belper.—*December* 26th.—Flood on river Derwent in afternoon.

BRAMPFORD SPEKE.—*October* 24th.—Great floods of the Exe and Culm.

BUDE.—*October.*—A month of ● and floods; seriously retarding all agricultural operations.

November.—The excessive ● has resulted in frequent floods, retarding all agricultural operations. Very little work has been done on the land in this neighbourhood.

December.—This has been another wet and most discouraging month for those engaged in agricultural pursuits. The land is in an unworkable state from continued ●, and only small quantities of wheat have been sown on the farms along the coast up to the end of the year. The continued wet at the close of the year has favoured the spread of disease among the sheep, many having died.

CHELTENHAM, *October* 24th.—Terrible storm of ♈, ✳, ●, and much wind. The ● began about 8 a.m., and by 9 a.m. 1·11 in. had fallen; at 10 a.m. heavy ✳ followed the ● till 3 p.m., when a total of 1·89 in. had fallen in twelve hours. ● fell again at night, the total for twenty-four hours being 2·09 ins. Very disastrous floods occurred, roads being quite impassable; many houses in the lower parts of Cheltenham were flooded and much damage was done.

CHURCHSTOKE.—*October.*—The continued wet of this month has been very serious for farm work and prospects. On the Uplands the harvest is still unfinished. Wheat sowing is very backward, and very little will be done this season unless the weather should change. Stock are not doing well, and sheep show signs of disease.

November.—The constant wet has made the sowing of winter wheat impracticable on all heavy lands, and on high grounds oats and barley still remain unharvested.

December.—With the exception of a few nights of severe frost in the second week, the weather has been mild and very showery. A heavy fall of ✳ occurred on the 14th. Ploughing, storing of roots and all farm work are very backward, dry weather being much needed. Stock are generally healthy.

CRAMLINGTON.—*October.*—The wet weather has retarded agricultural operations. Corn crops are still awaiting favourable weather for leading. In many cases the corn has begun to grow. Potatoes are good crops and little disease is reported.

CROYDON.—*October.*—After the first fortnight the ground had become so saturated, through the almost constant heavy ●, that all working of the soil both on farm and in garden had to be suspended. After the prolonged cold in September, roses soon showed the effects of the change to warmer weather which marked the early part of this month, yielding tolerably good blooms and in fair abundance considering the time of year. The dahlias also were at this time finer than at any other period of the season. As the month advanced the roses continued to make somewhat rapid growth, and yet it was only seldom that any flowers worth gathering were to be had owing to the continuance of wet and very damp weather. Shortly after midday during the storm of the 24th the anemometer indicated for three consecutive intervals of ten seconds each the following high rates of velocity, viz. 61, 64 and 68 miles an hour; so that on this occasion for an entire half minute a mean velocity equal to 64 miles per hour was maintained.

November.—The whole of the dahlias in my garden succumbed to the 13° of frost which occurred on the 12th. The frost of the 18th, although severe for the season, did scarcely any fresh injury. In fact a few days later fifty-three different varieties of flowers were gathered from plants growing in the open ground in gardens at Addiscombe. Although this was on the whole rather a dry November, yet there were very few days without some rain, so that the soil was at no time sufficiently recovered from the saturated condition in which the previous month had left it as to be in really good working order. Hence the planting of winter grain on many farms this autumn has been greatly delayed, and on some heavy lands was rendered altogether impracticable. To the horticulturist also the season has for the same causes been an exceptionally unfavourable one for the removal and planting of shrubs, fruit trees, roses, &c. Most timber trees had lost nearly the whole of their foliage by the middle of the month, but here and there a few were still to be seen which retained all their leaves.

December.—All the geraniums in my garden were killed by the frosts of this month, but at its close a calceolaria growing under a South wall was noticed as being but slightly injured. When the first of the dense fogs of the month (1st) was thickest the atmosphere became so obscured that all objects, such as houses, trees, &c., were rendered invisible at a distance of 90 yds., during the second (10th) at 38 yds., during the third (11th) at 70 yds., and during the fourth (14th), which was the densest of all, at 35 yds. Farmers and gardeners found this another trying month, owing to the frequent ● and saturated state of the soil. On the lighter soils, however, the ground, although still sodden on the surface, was found, after the frosts of the month had broken up, to be in fairly good working order. The last rose of the year was gathered from a plant growing under a South wall on Christmas-day, which is very nearly three weeks later than the average date in the previous five years. On the 7th ✳ fell to the depth of 2½ ins., being the deepest fall of the year.

DUBLIN.—*October*.—The weather was throughout changeable and unsettled. Near Dublin the month was one of average mean temperature, the ● was below the average of the previous seventeen years, while the number of rainy days was above the average; in fact, Dublin remarkably escaped the torrential ● which characterised the month.

November was a cold, wet and windy month, especially characterised by displays of ♅; that of the 17th was particularly striking. The mean temperature was about 1° below the average of the previous seventeen years. ● and rainy days were much above the average of the seventeen years.

December was a cold month with great extremes of temperature, the range being 43°·2. Warm weather at the close so far restored the balance of temperature that the mean temperature was only about 3° below the average of the previous seventeen years. ● and rainy days were decidedly above the averages.

HELSTON. *October* 26th.—A lunar rainbow.

HILLINGTON.—*October*.—With the exception of a few beautiful days, it was a sunless wet month. A splendid ♅ on the 2nd, and a tremendous gale on the 24th, also marked this month. ● 2·17 ins. in excess of sixteen years' mean 1866-81.

ILFRACOMBE.—*December*.—During the last few days of the year primroses could be seen in full bloom in several gardens, and also in the parish churchyard.

ST. MICHAEL'S-ON-WYRE.—*October*.—A very mild autumn up to the end of this month, and many wild flowers still in bloom. One or two fields of newly sown wheat coming up very well.

SEATHWAITE.—*November*.—No ✳ in the valley, but the mountain tops have been covered several times.

December 11*th*.—Lake Derwentwater frozen over.

STRELLEY, *October* 3*rd*.—White corn harvest finished.

November 5*th*.—Last dish of peas gathered.—10th, completed harvest by getting last field of beans.—27th, At Marston Montgomery, Derbyshire, near Uttoxeter, they commenced cutting a field of oats.

SWANAGE.—*October* 26*th*.—Lunar rainbow.

TEIGNMOUTH (BITTON).—*October* 14*th*.—Strawberries in flower and in fully ripe fruit in a market garden.

VENTNOR.—*October* 24*th*.—The appearance of shrubs exposed to the wind is something like their appearance after the April storm,—leaves shrivelled.

December.—As illustrating the mild character of weather here, no less than twenty-five shrubs and flowers were in bloom in the hospital grounds on the 31st.

TEMPERATURE OF THE SOIL AT 9 A.M.

Station.	Depth below the Surface.	October.			November.			December.			Year.		
		Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.
		°	°	°	°	°	°	°	°	°	°	°	°
Aspley Guise..	3 ins.	49·9	55·9	40·5	40·7	48·8	34·5	37·4	46·6	32·2	49·5	67·4	32·2
Aspley Guise..	6 ins.	50·3	55·2	41·9	41·4	49·3	35·7	37·8	46·4	33·0	49·3	65·0	33·0
Babbacombe ..	6 ,,	53·1	57·8	47·0	45·6	51·4	40·3	42·1	49·0	35·0	52·0	66·4	35·0
Croydon.....	6 ,,	51·0	56·3	43·1	42·7	50·8	34·0	39·3	48·0	33·8	49·4	64·9	33·8
Marlborough..	6 ,,	49·8	56·0	40·7	40·8	49·0	34·3	38·2	48·0	32·4	49·3	66·0	32·4
Alnwick.....	1 ft.	51·6	56·0	43·0	41·6	47·5	37·5	37·2	44·0	34·5	49 6	66·0	34·5
Aspley Guise..	1 ,,	51·0	55·5	44·0	42·1	49·2	36·9	38·1	45·3	33·8	49·5	64·6	33·8
Babbacombe ..	1 ,,	54·3	57·5	49·2	47·0	51·6	42·8	43·0	48·8	37·6	52·8	66·9	37·6
Cardiff	1 ,,	51·5	55·1	45·4	45·1	51·0	41·1	41·7	49·1	37·1	50·6	63·3	37·1
Croydon.....	1 ,,	51·9	56·7	45·9	44·1	50·4	39·0	39·9	46·7	35·1	50·1	64·4	35·1
Cullompton ..	1 ,,	51·6	54·7	45·6	44·8	49·3	40·4	41·3	47·7	36·3	50·5	64·7	36·3
Harestock	1 ,,	52·2	55·9	46·9	45·3	50·3	40·9	41·4	47·6	37·0	49·7	61·4	37·0
Hodsock	1 ,,	51·6	54·6	46·2	42·9	48·4	38·7	38·5	42·3	36·0	49·2	63·5	36·0
Isleworth	1 ,,	52·2	57·1	45·6	43·6	50·0	38·9	39·4	46·8	35·0	50·1	64·1	35·0
Lowestoft	1 ,,	52·2	56·5	46·8	44·2	49·9	39·7	39·5	45·1	35·5	49·8	64·6	35·5
Marlborough	1 ,,	51·4	55·4	44·7	42·4	49·0	37·2	38·9	46·2	34·5	50·4	65·9	34·5
Norwood	1 ,,	51·8	55·8	46·2	43·7	49·3	39·2	39·3	45·9	35·2	49·8	64·0	35·2
Regent's Park	1 ,,	51·2	56·4	44·8	43·3	49·7	38·2	39·4	47·0	35·0	49·7	64·8	35·0
St. Leonard's	1 ,,	54·6	58·5	48·8	46·9	52·7	42·4	42·0	47·6	37·7	51·5	66·6	37·7
Southampton	1 ,,	52·6	56·9	47·0	45·4	50·7	41·2	41·6	47·9	36·7	51·6	64·9	36·7
Strelley	1 ,,	49·6	53·7	42·4	40·9	47·0	37·0	37·7	44·2	35·2	47·8	62·5	35·2
Worthing	1 ,,	53·6	57·9	46·9	45·4	51·5	40·0	40·8	46·8	36·0	51·8	66·5	36·0
Marlborough..	1½ ft.	52·6	55·9	47·0	44·0	49·1	39·9	39·7	45·2	36·3	50·8	64·8	36·3
Alnwick	2 ft.	54·9	57·0	50·5	47·5	51·0	44·5	42·6	44·5	41·5	52·1	65·0	41·5
Aspley Guise	2 ,,	52·7	56·2	47·2	44·8	49·5	41·1	40·1	44·4	37·2	50·5	63·3	37·2
Harestock ..	2 ,,	52·6	54·4	48·8	46·8	50·0	43·9	42·5	45·7	39·9	49·4	59·2	39·6
Isleworth .. .	2 ,,	53·6	56·5	49·2	46·2	50·5	42·9	41·5	46·0	38·8	50·8	63·0	38·6
Lowestoft	2 ,,	53·1	56·1	47·5	45·4	50·0	41·5	39·9	43·6	36·0	..	..	..
Marlborough..	2 ,,	53·4	55·9	48·9	45·8	49·7	42·5	41·0	44·6	38·8	50·9	63·1	38·8
Aspley Guise	4 ft.	54·1	55·7	50·7	47·9	50·6	45·0	42·8	45·0	41·5	50·3	60·4	40·9
Cardiff	4 ,,	54·2	55·3	52·0	50·2	52·0	48·5	46·5	48·4	45·3	50·8	58·2	45·0
Lowestoft	4 ,,	53·7	55·0	50·2	47·8	50·6	45·0	42·9	44·9	41·8	..	..	..
Regent's Park	4 ,,	53·3	55·0	49·3	47·5	50·0	45·0	42·8	45·0	41·5	49·7	61·0	40·5

DURATION OF BRIGHT SUNSHINE.

Station.	Total amount.				Greatest amount on one day.				No. of days on which no Sunshine was registered.			
	Oct.	Nov.	Dec.	Year.	Oct.	Nov.	Dec.	Year.	Oct.	Nov.	Dec.	Year.
	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.				
Aspley Guise..	75	72	38	1424	9·8	6·4	5·4	13·8	10	5	19	75
Blackpool	67	53	15	1376	9·2	5·6	3·1	14·3	6	5	22	81
Buxton	64	48	11	1158	7·3	5·8	5·3	14·5	11	11	27	104
Churchstoke ..	66	54	20	1343	8·0	6·8	4·3	13·8	11	5	20	75
Croydon	78	65	22	1440	9·1	6·5	5·0	14·0	10	8	22	78
Cullompton ..	71	78	21	1486	8·6	6·8	3·9	13·6	10	7	21	87
Harestock	82	94	38	1643	8·8	7·4	6·3	14·8	10	2	15	59
Hillington ..	71	41	15	1383	8·2	4·6	2·2	14·6	9	7	18	73
Hodsock	74	73	16	1367	9·1	6·2	5·5	14·7	10	6	23	78
Llandudno ..	63	32	22	1255	8·2	7·0	6·1	15·2	12	12	16	94
Marlborough .	73	87	23	1509	9·6	7·0	4·9	13·9	9	4	18	70
St. Leonard's	103	101	43	..	9·4	8·3	6·4	..	7	3	17	..
Southbourne ..	97	96	29	1736	9·2	7·3	5·8	14·3	11	5	22	79
Strelley	61	78	21	1334	7·7	6·7	4·7	13·7	9	5	22	79

Abstract of Climatological Observations for the YEAR 1882.

Station.	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Alnwick	47·4	82	40·9	54·3	13·4	47·6	15·3	81·5	66·2	6·5	32·87	198
Cramlington	47·3	84	39·8	53·3	13·5	46·6	14·8	79·9	65·1	6·8	31·24	213
Stapleton	47·4	88	40·2	53·2	13·0	46·7	17·1	73·8	56·7	8·0	49·72	226
Scaleby	48·3	..	41·0	54·3	13·3	47·7	15·7	75·5	59·8	7·4	38·94	212
Alston	45·1	84	37·3	51·0	13·7	44·1	3·0	76·8	73·8	7·5	52·51	239
Seathwaite	47·9	82	42·3	..	..	..	19·6	76·5	56·9	8·0	146·09	252
St. Michael's-on-Wyre	49·3	84	41·9	..	..	..	19·5	75·2	55·7	7·6	44·72	215
Blackpool	49·3	84	42·7	53·5	10·8	48·1	18·5	73·3	54·8	6·7	41·42	225
Bolton	47·6	84	40·9	53·4	12·5	47·2	18·4	73·7	55·3	7·9	61·73	240
Scarborough	49·0	81	44·2	53·5	9·3	48·9	19·3	74·7	55·4	6·3	31·76	203
,, (St. Nicholas)	48·1	84	42·3	..	..	..	17·2	75·0	57·8	7·4	33·54	209
Wakefield	49·1	80	41·9	55·5	13·6	48·7	12·9	74·8	61·9	..	33·29	221
Hodsock	48·8	82	40·8	55·8	15·0	48·3	7·7	76·0	68·3	7·0	31·95	210
Macclesfield	47·7	85	41·4	53·5	12·1	47·5	17·6	73·5	55·9	5·9	47·73	223
Buxton	46·4	85	38·6	52·4	13·8	45·5	− 4·0	74·4	78·4	7·7	65·89	217
Beacon Stoop	..	..	..	..	..	..	19·5	68·9	49·4	..	..	..
Oakamoor	..	..	..	..	..	..	11·2	..	..	7·5	52·60	224
Cheadle	46·3	87	40·7	53·3	12·6	47·0	13·5	73·7	60·2	7·0	45·84	222
Belper	47·2	87	41·2	54·2	13·0	47·7	11·5	73·6	62·1	5·2	42·90	206
Strelley	47·6	85	40·6	54·6	14·0	47·6	16·0	76·6	60·6	7·0	37·43	218
Llandudno	50·5	82	44·9	..	..	..	25·5	71·2	45·7	7·4	32·46	209
Chester	49·8	79	42·7	56·3	13·6	49·5	16·3	77·8	61·5	8·0	33·92	213
Leaton	48·5	..	40·1	55·1	15·0	47·6	12·0	78·0	66·0	..	33·10	229
Churchstoke	48·1	85	40·2	54·5	14·3	47·4	10·7	74·9	64·2	6·7	37·52	213
Kenilworth	48·2	84	40·8	55·1	14·3	48·0	17·2	76·5	59·3	7·4	37·44	199
Burghill	49·4	82	41·5	56·7	15·2	49·1	20·1	77·9	57·8	7·3	32·47	205
Ross	50·1	85	42·3	57·1	14·8	49·7	19·6	84·1	64·5	6·7	38·40	221
Cheltenham	49·2	82	41·5	56·0	14·5	48·8	17·0	78·1	61·1	7·3	37·92	214
Marlborough	48·7	85	41·5	55·4	13·9	48·5	11·8	78·7	66·9	7·4	43·79	208
Downside	48·3	86	42·1	54·3	12·2	48·2	13·4	72·4	59·0	7·1	53·07	210
Carmarthen	50·6	84	43·1	55·8	12·7	49·5	19·8	77·2	57·4	7·3	62·68	244
Cardiff	50·0	84	44·0	56·0	12·0	50·0	20·1	76·3	56·2	..	56·60	226
Weston-super-Mare	50·4	86	44·7	55·9	11·2	50·3	19·5	78·2	58·7	6·9	40·14	212
Ilfracombe	52·2	84	47·8	56·2	8·4	52·0	29·1	76·0	46·9	6·8	42·08	218
Bude	51·1	87	44·9	56·0	11·1	50·4	23·1	80·0	56·9	6·6	46·57	175
Helston	51·9	85	46·1	56·3	10·2	51·2	27·7	80·7	53·0	..	49·78	245
Falmouth	52·3	82	46·9	56·0	9·1	51·5	29·4	72·7	43·3	6·9	58·94	238
Maker	50·5	86	45·8	55·8	10·0	50·8	24·5	77·0	52·5	6·7	43·13	237
Ashburton	..	..	..	..	..	..	25·8	77·9	52·1	..	62·12	219
Bridgetown	51·7	80	43·2	58·0	14·8	50·6	15·7	80·3	64·6	6·7	53·66	235

Abstract of Climatological Observations for the YEAR 1882.

Station.	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Torquay, C. C.	51·5	84	45·2	56·0	10·8	50·6	22·5	72·6	50·1	7·0	38·46	213
Torquay, R.	50·8	82	44·8	56·1	11·3	50·5	25·9	77·6	51·7	7·1	38·26	215
Babbacombe	51·5	81	44·5	56·6	12·1	50·6	20·4	78·2	57·8	7·1	41·23	214
Teignmouth, B.	51·5	80	45·7	57·0	11·3	51·3	22·2	77·2	55·0	6·9	39·53	188
Teignmouth, W.	52·7	83	43·9	58·7	14·8	51·3	24·8	81·2	56·4	6·4	40·98	218
Sidmouth	50·8	86	44·7	55·7	11·0	50·2	24·9	75·0	50·1	7·5	41·00	226
Brampford Speke	50·3	85	43·2	56·5	13·3	49·9	19·5	75·1	55·6	7·1	41·88	240
Cullompton	50·5	83	42·1	56·7	14·6	49·4	18·2	77·1	58·9	7·0	45·46	236
Weymouth	51·6	81	46·2	56·4	10·2	51·3	26·6	76·8	50·2	5·8	33·46	177
Swanage	51·5	84	45·3	54·7	9·4	50·0	22·5	71·9	49·4	5·9	34·92	172
Bournemouth	50·9	84	43·8	56·5	12·7	50·2	20·0	80·0	60·0	6·0	..	..
Southbourne-on-Sea	50·6	82	44·5	56·0	11·5	50·3	20·0	79·5	59·5	6·2	30·82	186
Southampton	50·6	82	42·2	57·0	14·8	49·6	17·7	78·5	60·8	6·9	32·89	215
Portsmouth	51·4	82	41·3	58·3	17·0	49·8	18·7	84·5	65·8	5·6	29·28	197
Ventnor	52·0	83	46·9	57·1	10·2	52·0	29·3	77·2	47·9	6·2	32·67	185
Worthing	51·6	82	45·1	56·5	11·4	50·8	26·6	81·0	54·4	5·8	32·35	180
Hastings	51·1	82	46·2	56·0	9·8	51·1	27·1	76·3	49·2	6·5	32·44	182
Margate	50·6	83	44·7	55·9	11·2	50·3	24·8	77·9	53·1	7·3	26·20	178
Southend	..	..	44·3	..	..	..	22·1	81·5	59·4	6·6	22·57	140
Harestock	49·6	77	41·9	55·6	13·7	48·8	18·3	78·7	60·4	7·0	34·49	189
Swarraton	48·8	84	41·4	55·7	14·3	48·5	15·4	78·5	63·1	..	34·18	170
Strathfield Turgiss	50·1	82	41·3	57·9	16·6	49·6	18·0	83·7	65·7	7·0	28·48	171
Cranleigh	49·6	87	42·5	56·3	13·8	49·4	14·0	78·9	64·9	7·0	32·57	201
Tunbridge Wells	48·9	90	42·4	54·8	12·4	48·6	19·2	78·1	58·9	7·2	35·09	203
Tunbridge	..	..	..	..	..	..	19·1	81·6	62·5	6·8	30·99	172
Beddington	49·7	83	41·6	56·7	15·1	49·2	19·2	80·3	61·1	6·7	25·45	169
Croydon	49·8	80	42·8	56·6	13·8	49·7	18·2	79·4	61·2	7·5	26·34	184
South Norwood	49·7	84	42·8	56·6	13·8	49·7	19·6	80·5	60·9	7·1	22·86	159
Norwood	50·0	81	42·9	57·0	14·1	50·0	22·4	80·4	58·0	7·0	25·16	188
Isleworth	50·3	82	42·4	57·5	15·1	50·0	21·8	80·4	58·6	7·1	26·33	194
Regent's Park	49·7	81	43·3	56·9	13·6	50·1	22·5	80·0	57·5	..	27·18	169
Finchley	48·7	85	41·1	55·6	14·5	48·4	15·2	78·3	63·1	6·0	28·40	210
Watford	..	..	..	..	..	..	15·2	77·9	62·7	..	33·57	199
Throcking	47·9	88	41·3	55·2	13·9	48·2	19·1	77·6	58·5	6·8	27·92	193
Aspley Guise	49·5	84	41·4	55·7	14·3	48·5	13·9	78·7	64·8	7·0	29·20	182
Hillington	49·4	84	41·1	56·1	15·0	48·6	19·8	79·7	59·9	7·9	33·31	189
Cromer	..	..	..	..	..	..	..	..	..	6·2	30·52	166
Somerleyton	49·6	83	42·8	55·5	12·7	49·2	19·9	74·8	54·9	6·4	31·45	177
Lowestoft	49·9	83	43·4	54·9	11·5	49·2	21·0	76·4	55·4	6·9	30·37	168
Guernsey	52·1	86	47·9	57·3	9·4	52·6	30·2	76·4	46·2	6·7	41·83	217
Dublin	49·8	81	44·5	55·0	10·5	49·8	13·3	71·4	58·1	6·5	31·18	227
Killarney	..	..	..	56·4	..	..	11·5	79·3	67·8	..	56·82	..

Abstract of Meteorological Observations for the Month of DECEMBER, 1882.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of					Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.														
Alnwick	29·621	35·0	35·3	35·1	31·0	39·3	15·3	12	52·5	29	33·9	34·2	89	89	6·1	6·4	4·88	·80	7	20	12	6	12	0	4	5	2	7	6	7	12	11	8
Cramlington..	·613	34·9	35·7	35·3	30·4	39·7	14·8	12	52·9	29	34·2	34·8	93	91	7·2	6·7	3·24	·55	4	25	12	3	13	4	4	7	5	3	10	6	13	14	0
Scaleby	·610	35·1	36·3	35·7	31·4	39·7	15·7	12	52·0	29	34·0	35·3	89	91	7·2	7·1	2·99	·45	31	17	4	1	14	8	7	9	10	3	2	15	3	1	12
Scarborough..	·617	38·2	39·4	38·8	36·2	42·1	19·3	12	53·5	29	37·1	38·2	90	90	7·5	7·5	3·86	1·03	6	23	8	1	15	4	1	8	9	5	4	16	16	2	1
Wakefield	·640	36·2	37·3	36·8	32·5	40·9	12·9	12	55·8	29	35·2	36·2	90	90	8·6	8·9	3·49	·60	25	24	4	1	22	1	9	2	3	8	8	11	15	6	0
Buxton	....	34·2	34·9	34·5	29·2	38·7	−4·0	12	50·6	29	33·5	34·3	93	94	8·5	9·5	7·12	·94	25	24	12	0	24	0	5	8	5	14	3	7	12	4	4
Cheadle	·653	35·7	36·5	36·1	32·3	40·5	13·5	12	53·4	27	35·3	36·2	96	97	7·8	8·6	6·25	1·04	25	24	8	2	23	1	3	10	16	5	4	9	6	4	5
Llandudno ..	·647	40·8	41·4	41·1	37·4	44·0	25·5	12	55·2	28	39·3	39·9	88	88	7·6	7·4	3·56	1·14	25	19	5	2	17	5	3	4	9	12	7	14	11	2	0
Leaton	·656	36·9	37·9	37·4	33·1	41·2	12·0	11	53·0	27, 28, 29	36·2	37·1	94	93	7·2	8·1	3·47	·50	6, 30	24	7	2	17	..	9	0	1	15	12	5	11	5	4
Churchstoke..	·667	37·3	37·9	37·6	33·1	41·9	10·7	12	56·1	27	36·4	37·0	91	92	7·1	7·9	3·60	·36	12	23	10	2	17	3	8	7	7	10	6	4	10	10	0
Cheltenham ..	·651	39·0	40·1	39·5	35·1	43·3	17·0	12	55·3	27	38·2	39·1	93	92	8·2	8·7	3·16	·36	25	24	6	0	18	1	8	0	0	11	8	11	9	7	8
Carmarthen ..	·656	40·7	41·5	41·1	37·1	44·7	19·8	11	53·8	27	40·0	40·5	94	92	8·5	8·3	6·30	·79	29	23	3	0	22	0	5	2	12	2	7	13	4	6	11
Babbacombe..	·691	42·6	42·6	42·6	39·0	46·7	20·4	11	54·2	27	41·5	41·6	91	92	8·3	7·5	3·88	·40	12	22	5	2	18	6	4	5	6	6	4	13	14	8	2
Downside	·677	38·6	39·3	38·9	35·1	43·2	13·4	11	54·0	27	38·3	38·9	97	97	7·8	8·3	6·42	1·15	25	23	5	1	20	5	5	11	1	6	5	20	8	6	0
Marlborough	·683	38·0	38·9	38·4	34·6	42·7	11·8	11	54·1	27	37·4	38·4	95	95	8·5	8·8	4·06	·66	25	24	4	1	23	0	4	1	2	4	9	5	4	4	29
Strathfield T.	·690	39·1	40·1	39·6	34·5	44·2	18·0	11	57·2	27	38·3	39·1	93	92	7·9	8·3	2·19	·42	30	19	3	2	20	0	4	4	2	8	4	11	11	10	8
Norwood	·678	39·3	40·4	39·9	35·9	44·2	22·4	10	56·8	27	38·5	39·4	93	92	8·2	8·2	1·89	·52	7	21	4	0	21	0	3	1	7	7	8	7	15	4	10
Croydon	·687	39·4	40·0	39·7	35·4	44·4	18·2	11, 12	56·9	27	38·4	38·9	92	91	8·4	6·8	2·15	·54	7	22	6	3	18	0	3	0	5	5	6	14	10	0	19
Southbourne	·679	41·3	42·1	41·7	38·2	45·6	20·0	11	53·6	26	40·3	41·1	92	92	7·5	6·5	2·77	·48	2	24	2	3	15	1	9	1	8	5	9	3	13	10	4
Margate	·667	40·6	40·9	40·7	36·2	44·9	24·8	11	55·8	27	39·9	40·1	94	93	8·8	7·3	2·50	·58	7	21	4	1	21	0	1	6	2	7	10	19	5	1	11
Hillington....	·651	38·0	37·9	38·0	33·9	42·1	19·8	12	53·9	28	37·5	37·3	95	95	9·0	7·7	3·40	·60	25	18	2	0	20	0	0	8	1	14	8	21	6	4	0
Lowestoft	·650	39·0	39·4	39·2	35·3	43·5	21·0	12	55·0	27, 28	38·3	38·3	94	91	7·9	7·0	3·67	·70	7	21	2	4	18	0	3	3	3	9	9	8	15	10	2
Dublin	·639	37·0	38·3	37·6	33·8	42·5	13·3	14, 15	56·5	27	36·0	37·3	91	91	6·7	6·1	3·78	·58	17	21	4	4	9	1	4	5	2	10	4	8	19	4	6
Killarney	29·656	39·0	39·4	39·2	33·1	44·9	11·5	14	57·8	27	38·2	38·6	93	93	7·2	6·3	4·75	·49	25	21	6	3	13	2	4	2	6	5	2	13	10	5	15
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

PHENOMENA OBSERVED AT THE STATIONS DURING DECEMBER, 1882.

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Alnwick	≡	●✳	●≡	●✳ ▲	●✳ ▲	●✳ ▲	●✳ ▲	●✳ ▲	●✳ ▲	✳	≡	●	●✳	●✳ ≡	●≡	●≡	●≡	●≡	●≡	..	..	..	..	..	..	..	●✳	✳	●	●	●ψ	●≡
Cramlington	..	●✳	●✳ ≡	●✳ ▲	●✳ ▲	●✳	●✳ ▲	●✳ ▲	●✳ ▲ᛕ	✳	..	●	●✳	●✳	●≡	●≡	●≡	●≡	●≡	●≡	●≡	..	●	ψ	●	●	●✳	●≡	●	●	..	●≡
Scaleby	..	●	●	●	●✳	●✳	..	..	..	..	..	..	●✳	..	..	●	..	●	..	●	●	..	..	●	●✳ ≡	●	●	●	●	..	●
Scarborough	●▲	●✳ ≡	●	●	●✳ ▲	●✳	●✳ ▲	●✳ ▲	●▲	..	..	●	●✳	●✳	●≡	●≡	●≡	..	..	●	●	●	..	ψ	●	●✳	..	●	●	..	●≡
Wakefield ..	≡	●≡	●	●	●✳	●✳	●	●	●	..	≡	●✳ ≡	●✳	●	●	●	●	●	≡	●	●	●	..	..	●	●	●	●	●	..	●
Buxton	≡	●✳	●✳ ≡	●✳	●✳	●✳	●✳	●✳	..	≡	≡	●≡	●✳	≡	●≡	●≡	●≡	●≡	≡	●	●✳ ▲	●▲	▲	●✳ ≡	●≡	●	●	●	●	●✳	●✳ ≡
Cheadle	≡	●✳ ≡	●	●✳	●✳	●✳	●✳ ↙	●✳	..	..	≡	●≡	●✳	●≡	●	●	●≡	≡	≡	●≡	●	●	..	●	●≡	●	●	●	● T	●✳	●≡
Llandudno ..	≡	●	●	●▲	✳	●✳	..	..	..	..	..	●≡	●✳ ≡	●✳ ≡	≡	●	●	≡	≡	●	..	●	..	●	●	●	●	●	●	●✳	●
Leaton	●≡	●✳	●	●	●✳	●✳	●	✳	..	..	..	●✳	●✳	●≡	●≡	●≡	●	..	≡	●	●	●ψ	..	●	●✳ ≡	●	●	●	●	●	●
Churchstoke	..	●	●	●	●✳	●✳	●✳	●✳	●✳	≡	..	●✳ ≡	●✳	✳≡	●✳ ≡	●✳	●	●	≡	●	●	..	..	●	●	●	●	..	●	●	●
Cheltenham	..	●	●	●	●✳	●✳	●✳	●✳	..	≡	≡	●✳	●✳ ≡	●≡	●	●	●	..	●	●≡	..	●	..	●	●≡	●	●	●	●	●	●
Carmarthen	●	●	●≡	●	●	●✳	..	..	..	≡	≡	●✳	●✳	●≡	●	●	●	●	..	●	..	●	ψ	●	●	●	●	●	●	●	●
Babbacombe	●	●	●≡	●↙	✳	●✳	●✳	✳	..	○	≡	●✳	≡	●	●	●ψ	●	●≡	≡	●≡	ψ	●	○ψ	●	●	●	●	●	●	●	●≡
Downside ..	..	●	●	●	●	●✳	●✳	●✳	..	≡	≡○	✳≡	●✳ ≡	≡	●≡	●	●	●	●	●	..	●	▲	●	●	●	●	●	●	●	●
Marlborough	≡	●≡	●	●	●	●✳	●✳	●✳	..	≡	≡	●≡	●✳	●≡	●≡	●≡	●	●	..	●	..	●	▲	●	●≡	●	●	●	●	●	●
Strathfield T.	≡	●✳ ≡	●	●	●	✳	●✳	..	≡	≡	≡	●	..	≡	≡	●≡	●	●	≡	●≡	..	●	..	●ψ	●	●	●	●	●	●	●
Norwood ..	≡	●≡	●≡	●	●✳	●✳	●✳ ≡	✳≡	≡	≡	≡	●≡	●≡	●≡	●≡	●≡	●≡	..	≡	●≡	..	●≡	..	●ψ	●≡	●	●	..	●	●≡	●≡
Croydon	≡	●✳ ≡	●✳	●	●✳	●✳	●✳	✳≡	..	≡	≡	●≡	●≡	●≡	●≡	●	●	..	≡	●≡	..	●	..	●ψ ≡	●	●	●	●	●	●	●
South Bourne	..	●	●	●	..	●✳	●✳	..	..	≡	●	●	..	●	●≡	●	●	●	●	●	●	●	..	●	●	●	●	●	●	●	●
Margate . ..	●≡	●	●	..	●✳	●	●✳	●✳	●	●✳ ≡	≡	..	●	≡	●≡	●	ψ	..	..	●≡	..	●	..	●	●	●	●	..	●	●	●
Hillington ..	≡	●✳ ≡	●	..	●	..	●	●✳	..	..	..	..	..	≡	≡	●≡	●ψ	●	●	●≡	..	●	..	●	●	●	●	●	..	●	●
Lowestoft ..	●	●	●≡	●	●	●≡	●✳ ▲	●✳	..	..	..	..	●	..	●≡	●≡	●≡	..	●	●≡	●	●ψ	..	ψ	●	●	●≡	..	..	●	●≡
Dublin	●≡	●≡	●	●	●▲	●✳ ▲	●✳ ▲	✳	≡	..	●✳ ≡	≡	≡	≡	●▲ ≡	●≡	●≡	●≡	≡	●	..	●	ψ	●	●≡	●≡	..	●	●	●	●≡
Killarney ..	●	●	●	●▲	..	..	✳↙	..	✳	●✳	✳≡	✳≡	≡	●✳	●	●	●≡ ψ	..	≡	●ψ	●	●	●	●	●	●	●	●	●	●	●

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✳ snow; ▲ hail; ≡ fog; ᛕ thunderstorm; T thunder; ↙ lightning; ○ solar halo; ψ lunar halo; ᛘ aurora.

ABSTRACT OF CLIMATOLOGICAL OBSERVATIONS FOR THE QUARTER ENDING DECEMBER 31st, 1882.

OCTOBER.

Station.	Means at 9 a.m.		Temperature. Means.				Temperature. Extremes in Month.			Mean Amount of Cloud at 9 a.m.	Rain.	
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Alnwick	48·2	89	43·8	54·7	10·9	49·3	29·8	67·0	37·2	6·2	3·54	21
Cramlington	49·3	89	42·9	53·7	10·8	48·3	31·9	66·7	34·8	6·2	3·09	24
Stapleton	49·0	92	42·8	54·1	11·3	48·5	32·1	64·5	32·4	8·0	4·53	24
Scaleby	49·5	93	43·4	54·9	11·5	49·1	31·0	66·7	35·7	7·8	4·35	23
Alston	45·9	90	39·7	50·9	11·2	45·3	24·6	63·8	39·2	7·9	4·23	27
Seathwaite	48·7	83	44·0	53·6	9·6	48·8	32·5	64·8	32·3	8·1	8·85	21
St. Mich.-on-Wyre	50·7	87	43·9	55·9	12·0	49·9	33·2	66·3	33·1	7·6	5·02	21
Blackpool	50·7	88	44·6	55·2	10·6	49·9	32·1	66·1	34·0	7·1	4·00	20
Bolton	48·4	90	42·7	53·9	11·2	48·3	34·0	66·4	32·4	7·9	4·01	22
Scarborough	50·7	85	47·1	54·4	7·3	50·7	36·9	67·3	30·4	6·3	4·70	24
,, (St. Nichs.)	49·8	89	45·7	54·4	8·7	50·0	34·7	66·8	32·1	7·4	5·03	24
Wakefield	49·5	87	44·6	55·6	11·0	50·1	29·8	68·8	39·0	7·5	4·49	23
Hodsock	49·2	90	43·5	55·6	12·1	49·6	28·2	68·1	39·9	7·3	4·93	24
Macclesfield	48·6	89	43·1	53·8	10·7	48·5	30·9	64·1	33·2	6·5	3·78	21
Buxton	47·0	92	41·0	52·9	11·9	46·9	28·5	64·6	35·6	7·7	5·99	24
Beacon Stoop	..	..	..	..	..	..	36·0	60·7	24·7	..	6·87	..
Oakamoor	48·5	87	39·5	54·0	14·5	46·7	26·2	65·5	39·3	8·5	5·68	24
Cheadle	46·4	96	42·2	52·9	10·7	47·5	27·9	64·1	36·2	6·7	5·37	25
Belper	47·2	94	42·6	53·5	10·9	48·1	30·6	65·3	34·7	6·0	6·08	25
Strelley	47·2	93	42·0	53·9	11·9	48·0	29·1	64·9	35·8	7·3	5·36	24
Llandudno	51·6	86	46·7	55·1	8·4	50·9	38·4	71·2	32·8	7·3	2·64	20
Chester	49·7	86	43·3	56·4	13·1	49·8	33·8	68·8	35·0	8·4	2·46	22
Leaton	47·9	93	40·9	54·3	13·4	47·6	25·6	66·8	41·2	..	4·46	23
Churchstoke	48·4	93	41·4	53·8	12·4	47·6	29·5	64·9	35·4	7·6	4·66	27
Kenilworth	48·2	91	41·5	55·1	13·6	48·3	26·0	66·8	40·8	7·8	5·74	22
Burghill	49·1	90	42·3	56·1	13·8	49·2	27·4	65·3	37·9	8·2	4·45	24
Ross	49·3	94	43·1	55·3	12·2	49·2	29·6	65·8	36·2	7·9	5·80	26
Cheltenham	49·2	90	43·3	55·4	12·1	49·4	30·5	67·0	36·5	7·8	5·83	26

NOVEMBER.

Station.	Means at 9 a.m.		Temperature. Means.				Temperature. Extremes in Month.			Mean Amount of Cloud at 9 a.m.	Rain.	
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Alnwick	38·9	86	35·2	45·2	10·0	40·2	26·4	57·9	31·5	5·9	3·71	26
Cramlington	39·3	87	34·2	45·0	10·8	39·6	25·5	57·3	31·8	6·7	3·24	23
Stapleton	38·2	90	33·7	43·3	9·6	38·5	25·0	54·0	29·0	6·9	5·98	23
Scaleby	38·6	89	34·1	43·1	9·0	38·6	24·5	54·0	29·5	6·2	5·41	22
Alston	36·1	91	30·8	41·0	10·2	35·9	16·4	51·9	35·5	8·1	6·63	24
Seathwaite	41·0	83	36·3	..	..	..	26·6	..	..	7·6	18·33	23
St. Mich.-on-Wyre	41·7	88	36·3	..	..	..	24·4	..	..	7·0	5·76	24
Blackpool	43·2	85	37·7	47·5	9·8	42·6	25·9	55·6	29·7	5·7	5·55	23
Bolton	40·9	88	35·5	46·0	10·5	40·7	26·1	55·7	29·6	6·9	8·07	24
Scarborough	42·1	82	39·0	46·1	7·1	42·6	32·5	58·2	25·7	5·8	3·86	25
,, (St. Nichs.)	41·8	86	37·8	46·6	8·8	42·2	29·2	57·5	28·3	6·6	4·03	28
Wakefield	41·3	85	36·8	47·1	10·3	41·9	23·6	60·0	36·4	6·9	3·65	26
Hodsock	40·6	85	35·6	47·3	11·7	41·4	20·7	58·4	37·7	5·6	2·68	23
Macclesfield	39·2	90	35·5	45·6	10·1	40·5	27·3	55·8	28·5	6·2	6·18	23
Buxton	38·2	88	32·6	43·7	11·1	38·2	20·4	54·2	33·8	6·9	9·25	24
Beacon Stoop	..	..	..	..	..	..	26·0	53·2	27·2	..	5·88	..
Oakamoor	41·2	..	34·0	47·7	13·7	40·9	20·5	58·2	37·7	6·1	6·31	24
Cheadle	39·1	92	35·7	45·4	9·7	40·6	25·1	56·3	31·2	5·7	4·93	24
Belper	39·8	89	35·5	46·3	10·8	40·9	22·4	57·7	35·3	3·9	4·88	22
Strelley	39·3	90	35·1	46·1	11·0	40·6	21·0	57·9	36·9	5·3	3·68	24
Llandudno	45·7	81	40·4	48·6	8·2	44·5	30·2	56·1	25·9	7·6	3·91	23
Chester	42·4	82	37·1	48·3	11·2	42·7	25·4	59·0	33·6	7·9	4·13	25
Leaton	41·1	88	34·6	46·7	12·1	40·7	21·2	59·0	37·8	6·0	3·59	25
Churchstoke	41·9	88	35·4	47·2	11·8	41·3	23·3	59·6	36·3	6·6	5·11	26
Kenilworth	40·5	88	35·3	47·3	12·0	41·3	19·6	58·3	38·7	6·0	4·11	22
Burghill	43·2	83	37·5	49·3	11·8	43·4	23·2	58·9	35·7	6·0	2·86	22
Ross	43·5	88	37·8	49·2	11·4	43·5	24·8	59·1	34·3	5·4	3·82	19
Cheltenham	42·0	86	37·2	48·0	10·8	42·6	23·0	58·6	35·6	6·7	3·86	22

DECEMBER.

Station.	Means at 9 a.m.		Temperature. Means.				Temperature. Extremes in Month.			Mean Amount of Cloud at 9 a.m.	Rain.	
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Alnwick	35·0	89	31·0	39·3	8·3	35·1	15·3	52·5	37·2	6·1	4·88	20
Cramlington	34·9	93	30·4	39·7	9·3	35·1	14·8	52·9	38·1	7·2	3·24	25
Stapleton	35·1	94	29·9	39·4	9·5	34·6	17·1	49·0	31·9	8·5	3·67	15
Scaleby	35·1	89	31·4	39·7	8·3	35·6	15·7	52·0	36·3	7·2	2·99	17
Alston	31·9	87	26·6	36·8	10·2	31·7	3·0	48·8	45·8	7·7	5·59	24
Seathwaite	37·3	87	33·1	..	..	..	19·6	..	..	8·3	11·93	22
St. Mich.-on-Wyre	37·2	93	33·2	..	..	..	19·5	..	..	7·4	3·39	18
Blackpool	37·4	92	33·1	41·7	8·6	37·4	18·5	51·3	32·8	7·4	2·95	18
Bolton	37·1	92	32·4	41·0	8·6	36·7	18·4	51·5	33·1	8·2	5·26	24
Scarborough	38·2	90	36·2	42·1	5·9	39·1	19·3	53·5	34·2	7·5	3·86	23
,, (St. Nichs.)	37·5	92	34·0	42·2	8·2	38·1	17·2	54·0	36·8	8·4	3·85	23
Wakefield	36·2	90	32·5	40·9	8·4	36·7	12·9	55·8	42·9	8·6	3·49	24
Hodsock	36·0	94	31·8	40·8	9·0	36·3	7·7	55·0	47·3	8·2	4·60	21
Macclesfield	37·4	92	33·4	41·5	8·1	37·5	17·6	52·5	34·9	7·7	5·59	22
Buxton	34·2	93	29·2	38·7	9·5	33·9	−4·0	50·6	54·6	8·5	7·12	24
Beacon Stoop	..	..	..	..	..	..	19·5	50·3	30·8	..	8·58	..
Oakamoor	36·9	..	30·8	42·0	11·2	36·4	11·2	54·6	43·4	9·3	7·08	22
Cheadle	35·7	96	32·3	40·5	8·2	36·4	13·5	53·4	39·9	7·8	6·25	24
Belper	36·1	95	32·2	40·8	8·6	36·5	11·5	54·2	42·7	7·1	6·36	23
Strelley	35·6	96	32·1	40·4	8·3	36·2	16·0	53·1	37·1	8·6	4·88	24
Llandudno	40·8	88	37·4	44·0	6·6	40·7	25·5	55·2	29·7	7·6	3·56	19
Chester	37·9	92	34·4	43·0	8·6	38·7	16·3	55·7	39·4	9·4	4·32	21
Leaton	36·9	94	33·1	41·2	8·1	37·1	12·0	53·0	41·0	7·2	3·47	24
Churchstoke	37·3	91	33·1	41·9	8·8	37·5	10·7	56·1	45·4	7·1	3·60	23
Kenilworth	37·2	95	33·2	42·6	9·4	37·9	17·2	55·1	37·9	8·6	3·56	24
Burghill	37·9	93	34·2	43·4	9·2	38·8	20·1	57·1	37·0	7·7	2·81	27
Ross	38·9	94	34·9	43·6	8·7	39·3	19·6	56·0	36·4	8·0	3·60	25
Cheltenham	39·0	93	35·1	43·3	8·2	39·2	17·0	55·3	38·3	8·2	3·16	24

Station.	OCTOBER.												NOVEMBER.												DECEMBER.											
	Means at 9 a.m.		Temperature.								Rain.		Means at 9 a.m.		Temperature.								Rain.		Means at 9 a.m.		Temperature.								Rain.	
			Means.				Extremes in Month.								Means.				Extremes in Month.								Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.	Mean Amount of Cloud at 9 a.m.	Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.	Mean Amount of Cloud at 9 a.m.	Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.	Mean Amount of Cloud at 9 a.m.	Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.	
Marlborough ..	48·9	93	43·1	55·2	12·1	49·1	28·3	66·0	37·7	7·7	6·74	25	40·6	91	36·4	47·3	10·9	41·9	22·2	58·8	36·6	5·9	4·30	23	38·0	95	34·6	42·7	8·1	38·6	11·8	54·1	42·3	8·5	4·06	24
Downside	48·7	93	43·6	54·3	10·7	48·9	33·1	64·9	31·8	8·4	6·74	24	41·2	90	36·7	47·5	10·8	42·1	27·7	57·0	29·3	6·2	6·17	23	38·6	97	35·1	43·2	8·1	39·2	13·4	54·0	40·6	7·8	6·42	23
Carmarthen ..	51·4	88	43·9	56·7	12·8	50·3	33·0	65·1	32·1	7·9	8·17	24	44·3	87	37·9	50·0	12·1	43·9	24·9	58·0	33·1	6·2	6·66	25	40·7	94	37·1	44·7	7·6	40·9	19·8	53·8	34·0	8·5	6·30	23
Cardiff.....	50·1	89	44·9	55·5	10·6	50·2	33·1	64·5	31·4	..	8·33	23	43·4	87	38·8	49·1	10·3	44·0	28·0	59·9	31·9	..	6·26	21	40·2	93	36·6	44·1	7·5	40·3	20·1	53·8	33·7	..	4·86	25
Weston-s-Mare	51·0	90	45·9	56·5	10·6	51·2	36·0	65·8	29·8	7·9	6·42	23	44·8	88	40·8	49·8	9·0	45·3	30·1	59·4	29·3	6·0	3·92	23	41·0	93	36·8	45·2	8·4	41·0	19·5	54·9	35·4	8·3	3·42	23
Ilfracombe ..	54·0	88	49·9	57·2	7·3	53·5	43·3	68·0	24·7	7·5	5·87	22	48·3	87	44·5	51·9	7·4	48·2	34·3	59·0	24·7	7·4	4·85	23	44·4	89	41·8	47·7	5·9	44·8	29·1	55·5	26·4	7·9	5·06	22
Bude	52·1	88	46·8	57·2	10·4	52·0	34·1	63·5	29·4	7·3	5·21	19	46·8	87	42·0	50·9	8·9	46·5	24·6	59·5	34·9	6·4	6·55	21	42·6	94	38·2	46·8	8·6	42·5	23·1	55·0	31·9	8·4	6·51	20
Helston	53·7	85	47·4	57·5	10·1	52·5	39·1	64·7	25·6	7·3	6·05	22	47·5	82	43·4	52·6	9·2	48·0	32·2	60·8	28·6	..	4·85	27	44·5	92	40·8	49·5	8·7	45·1	27·7	55·6	27·9	8·2	8·24	29
Falmouth	53·7	85	48·3	57·3	9·0	52·8	40·1	63·0	22·9	7·2	6·22	24	47·4	82	43·1	50·9	7·8	47·0	32·0	59·0	27·0	6·6	7·77	29	44·5	90	41·6	48·0	6·4	44·8	29·4	54·3	24·9	8·0	9·33	28
Maker	52·1	89	47·7	56·8	9·1	52·3	38·0	62·9	24·9	7·6	5·97	24	45·8	84	42·1	50·3	8·2	46·2	30·4	57·9	27·5	7·0	4·54	26	43·0	93	39·7	46·8	7·1	43·2	24·5	52·4	27·9	7·8	5·17	29
Ashburton	51·4	91	45·7	57·1	11·4	51·4	36·5	65·5	29·0	..	8·47	24	45·4	84	39·8	50·5	10·7	45·2	31·6	58·1	26·5	5·3	7·54	26	42·2	94	38·3	46·6	8·3	42·4	25·8	54·5	28·7	8·1	7·67	24
Bridgetown....	51·8	89	44·1	58·6	14·5	51·4	30·0	67·2	37·2	7·6	7·51	26	45·1	82	39·4	52·7	13·3	46·0	25·6	59·2	33·6	5·4	6·17	27	41·8	86	37·2	47·4	10·2	42·3	15·7	54·7	39·0	8·2	6·60	26
Torquay, C. C.	52·6	88	46·3	56·7	10·4	51·5	33·9	65·3	31·4	8·2	6·67	26	47·0	84	41·8	50·9	9·1	46·4	30·0	58·0	28·0	5·9	3·62	22	43·8	91	39·2	47·3	8·1	43·2	22·5	55·0	32·5	8·4	3·52	23
Torquay, R. ..	51·6	90	46·6	56·4	9·8	51·5	35·9	64·5	28·6	8·1	6·27	27	45·1	81	40·4	50·2	9·8	45·3	30·9	57·6	26·7	6·1	3·78	24	42·6	93	38·6	46·9	8·3	42·8	25·9	53·7	27·8	8·4	3·63	21
Babbacombe ..	52·3	88	45·2	57·2	12·0	51·2	34·3	65·7	31·4	7·9	6·79	26	46·3	79	40·1	50·9	10·8	45·5	30·1	58·8	28·7	5·8	3·98	24	42·6	91	39·0	46·7	7·7	42·9	20·4	54·2	33·8	8·3	3·88	22
Teignmouth, B.	51·2	88	46·3	57·1	10·8	51·7	33·3	65·7	32·4	7·9	7·30	23	45·8	80	41·3	50·8	9·5	46·0	30·2	59·4	29·2	5·0	3·64	20	42·9	89	39·5	47·2	7·7	43·4	22·2	56·2	34·0	7·9	3·85	23
Teignmouth,W.	52·2	89	46·6	58·5	11·9	52·6	37·6	66·9	29·3	7·4	7·54	26	45·7	84	40·4	51·7	11·3	46·0	32·1	62·0	29·9	5·1	4·08	23	43·0	94	38·9	47·4	8·5	43·2	24·8	55·8	31·0	7·7	4·31	26
Sidmouth	52·0	92	45·8	56·6	10·8	51·2	36·2	64·1	27·9	7·9	7·39	28	44·9	86	40·8	50·4	9·6	45·6	30·3	59·0	28·7	6·3	4·07	26	42·8	93	39·0	47·3	8·3	43·1	24·9	57·0	32·1	8·3	4·79	28
Brampford Spk.	49·9	93	43·9	55·4	11·5	49·7	29·7	66·8	37·1	7·8	6·55	27	43·8	87	38·6	49·3	10·7	43·9	27·5	59·4	31·9	5·7	4·96	28	40·9	94	37·0	45·5	8·5	41·3	19·5	56·3	36·8	8·4	4·77	28
Cullompton ..	50·6	91	42·8	56·4	13·6	49·6	27·6	64·3	36·7	7·7	7·29	28	44·3	83	38·4	49·9	11·5	44·2	25·5	59·5	34·0	5·4	5·12	27	41·1	91	36·2	46·0	9·8	41·1	18·2	58·0	39·8	8·9	5·56	24
Weymouth	53·9	82	48·5	57·6	9·1	53·1	38·5	64·7	26·2	6·9	7·09	21	46·5	78	42·5	50·9	8·4	46·7	33·0	58·5	25·5	6·4	3·47	21	43·7	88	39·8	46·7	6·9	43·2	26·6	52·9	26·3	7·5	3·59	22
Swanage	54·2	85	47·8	56·8	9·0	52·3	37·0	64·2	27·2	7·4	7·76	22	47·0	82	41·2	50·2	9·0	45·7	30·8	58·5	27·7	5·1	3·70	19	42·7	91	38·4	45·5	7·1	41·9	22·5	52·4	29·9	7·2	3·22	20
Bournemouth ..	52·3	89	45·5	57·4	11·9	51·4	36·3	64·8	28·5	7·0	7·78	20	44·0	87	39·5	50·7	11·2	45·1	27·0	58·6	31·6	5·6	4·30	16	41·0	93	36·7	46·1	9·4	41·4	20·0	55·7	35·7	7·5	3·61	22
Southbourne ..	52·8	87	46·3	57·2	10·9	51·7	35·9	64·3	28·4	6·5	6·64	22	44·7	83	40·7	50·8	10·1	45·8	27·0	59·3	32·3	4·6	3·69	21	41·3	92	38·2	45·6	7·4	41·9	20·0	53·6	33·6	7·5	2·77	24
Southampton..	51·5	90	42·8	57·5	14·7	50·1	30·7	67·9	37·2	7·4	6·77	24	43·6	85	37·9	50·1	12·2	44·0	24·0	58·8	34·8	5·5	3·84	23	40·5	94	35·7	45·7	10·0	40·7	17·7	54·4	36·7	7·9	2·73	21
Portsmouth ..	52·9	87	46·1	59·0	12·9	52·5	37·8	66·7	28·9	6·3	6·57	25	44·7	86	40·6	50·9	10·3	45·8	29·0	60·0	31·0	4·0	3·86	23	41·6	92	37·3	46·1	8·8	41·7	18·7	53·5	34·8	7·1	2·02	21
Ventnor	55·3	92	49·9	58·7	8·8	54·3	41·2	67·0	25·8	6·8	8·00	22	47·0	80	43·0	51·9	8·9	47·5	33·8	60·1	26·3	5·5	3·90	24	43·5	89	40·3	47·6	7·3	43·9	29·4	52·5	23·1	7·3	3·15	20
Worthing	54·3	84	46·8	58·5	11·7	52·6	34·9	65·4	30·5	5·7	8·46	20	45·1	83	40·5	50·3	9·8	45·4	30·0	58·4	28·4	4·5	3·81	22	41·3	92	37·3	45·4	8·1	41·4	27·0	53·2	26·2	6·8	2·88	22
Hastings	53·8	85	49·1	58·2	9·1	53·6	38·5	65·0	26·5	6·6	7·84	24	44·8	86	41·3	50·3	9·0	45·8	30·3	58·6	28·3	4·9	3·40	20	41·0	93	38·1	45·7	7·6	41·9	27·1	52·8	25·7	7·8	3·15	22

Station.	OCTOBER.												NOVEMBER.												DECEMBER.											
	Means at 9 a.m.		Temperature.								Rain.		Means at 9 a.m.		Temperature.								Rain.		Means at 9 a.m.		Temperature.								Rain.	
			Means.				Extremes in Month.			Mean Amount of Cloud at 9 a.m.					Means.				Extremes in Month.			Mean Amount of Cloud at 9 a.m.				Means.				Extremes in Month.			Mean Amount of Cloud at 9 a.m.		
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°		In.	
Ramsgate	52·7	86	47·7	57·4	9·7	52·6	38·7	65·6	28·9	7·1	4·57	21	44·0	87	39·8	49·3	9·5	44·5	30·3	58·7	28·4	5·8	2·94	20	40·6	94	36·7	45·0	8·3	40·9	24·6	55·7	31·1	8·6	2·44	19
Margate	52·7	86	47·9	57·8	9·9	52·9	36·8	67·8	31·0	7·6	4·71	21	44·1	86	39·3	49·6	10·3	44·4	31·6	64·1	32·5	6·4	3·17	20	40·6	94	36·2	44·9	8·7	40·6	24·8	55·8	31·0	8·8	2·50	21
Southend	52·1	..	47·1	..	..	..	36·5	..	..	7·0	4·32	19	43·0	..	39·0	..	..	..	27·8	..	..	4·7	2·93	17	38·9	..	35·1	43·4	8·3	39·2	22·1	55·3	33·2	8·6	2·36	14
Harestock	50·4	85	43·3	55·9	12·6	49·6	30·2	65·0	34·8	7·6	6·84	23	42·8	79	37·8	48·7	10·9	43·3	23·2	58·5	35·3	5·4	3·84	19	39·8	85	35·0	44·6	9·6	39·8	18·3	55·0	36·7	7·4	2·39	21
Swarraton	49·7	92	42·4	56·0	13·6	49·2	28·1	67·4	39·3	7·6	6·38	22	41·9	87	37·3	48·4	11·1	42·9	21·1	58·5	37·4	5·1	3·51	19	39·0	93	34·7	44·4	9·7	39·5	15·4	55·4	40·0	7·3	2·74	19
Strathfield Turg	50·4	90	43·0	57·4	14·4	50·2	27·7	69·2	41·5	7·4	5·95	23	42·6	85	36·9	49·0	12·1	43·0	21·2	60·3	39·1	5·1	3·05	21	39·1	93	34·5	44·2	9·7	39·3	18·0	57·2	39·2	7·9	2·19	19
Cranleigh	50·9	93	44·5	57·1	12·6	50·8	35·0	66·9	31·9	7·4	6·65	23	42·2	90	37·5	49·1	11·6	43·3	25·3	57·9	32·6	5·3	3·31	21	39·1	95	33·8	44·6	10·8	39·2	14·0	55·5	41·5	8·2	3·16	21
Tunb. Wells ..	50·7	91	45·0	55·9	10·9	50·5	35·2	67·6	32·4	7·5	6·37	20	42·4	90	38·2	47·6	9·4	42·9	25·8	58·2	32·4	5·3	4·13	22	38·4	98	34·3	43·3	9·0	38·8	19·2	53·0	33·8	7·7	3·15	22
Tunbridge	51·4	89	44·3	57·1	12·8	50·7	30·9	68·6	37·7	6·6	6·83	21	43·2	86	38·8	49·0	10·2	43·9	24·2	59·3	35·1	4·9	3·44	21	38·6	96	34·8	44·0	9·2	39·4	19·1	55·5	36·4	8·2	2·50	20
Beddington....	50·4	89	43·8	56·8	13·0	50·3	30·2	67·8	37·6	7·2	5·65	23	42·2	85	37·5	48·7	11·2	43·1	21·7	59·6	37·9	5·1	2·15	19	39·2	93	34·8	44·6	9·8	39·7	19·2	56·5	37·3	8·0	1·83	19
Croydon	51·0	88	44·4	57·1	12·7	50·7	31·5	68·2	36·7	7·4	5·75	23	42·8	83	38·7	49·1	10·4	43·9	23·9	60·2	36·3	5·8	2·24	20	39·4	92	35·4	44·4	9·0	39·9	18·2	56·9	38·7	8·4	2·15	22
South Norwood.	51·0	89	44·6	57·1	12·5	50·9	31·8	68·7	36·9	7·0	5·30	23	42·8	86	38·4	48·9	10·5	43·6	24·1	59·9	35·8	5·5	1·92	17	39·4	94	35·2	44·8	9·6	40·0	19·6	57·1	37·5	8·8	1·60	14
Norwood	50·8	89	44·9	57·0	12·1	51·0	31·9	68·7	36·8	7·3	5·72	23	42·3	85	38·6	48·7	10·1	43·6	24·0	60·3	36·3	5·3	2·07	19	39·3	93	35·9	44·2	8·3	40·1	22·4	56·8	34·4	8·2	1·89	21
Isleworth	50·4	91	44·0	58·2	14·2	51·1	28·2	70·1	41·9	7·5	5·62	26	42·7	86	37·4	49·2	11·8	43·3	23·2	60·1	36·9	5·3	2·46	22	39·6	94	35·0	45·0	10·0	40·0	21·8	57·0	35·2	8·3	2·22	22
Regent's Park..	50·2	88	45·0	57·1	12·1	51·0	31·8	69·4	37·6	..	5·30	24	42·7	83	38·5	48·9	10·4	43·7	23·0	61·0	38·0	..	2·16	18	39·8	89	35·8	44·6	8·8	40·2	22·5	57·8	35·3	..	2·41	16
Finchley	49·4	88	42·5	55·8	13·3	49·2	27·1	71·7	44·6	8·0	5·69	25	41·7	89	36·5	47·8	11·3	42·1	20·3	59·8	39·5	6·0	3·05	20	38·0	93	32·9	43·2	10·3	38·1	15·2	55·8	40·6	6·1	2·57	20
Watford	49·8	91	43·2	56·1	12·9	49·6	30·0	68·1	38·1	7·1	6·10	24	41·9	85	36·9	48·3	11·4	42·6	21·9	60·8	38·9	5·8	3·29	21	38·1	93	33·6	43·6	10·0	38·6	15·2	59·1	43·9	7·6	3·60	22
Throcking	48·7	94	43·3	55·3	12·0	49·3	29·4	66·7	37·3	7·8	5·49	24	40·4	92	36·4	46·5	10·1	41·4	26·9	57·5	30·6	5·3	3·13	22	36·8	98	32·5	42·1	9·6	37·3	19·1	53·4	34·3	7·8	2·66	25
Aspley Guise .	50·4	90	43·2	55·4	12·2	49·3	32·0	67·4	35·4	7·4	4·75	23	41·8	90	36·5	46·7	10·2	41·6	20·5	58·6	38·1	5·8	3·77	21	37·1	97	32·6	42·6	10·0	37·6	13·9	53·2	39·3	7·2	2·73	19
Boston, 4 feet..	49·6	90	..	5·3	10·7	50·0	32·0	68·7	36·7	6·5	4·48	18	41·2	87	37·6	46·6	9·0	42·1	28·7	59·2	30·5	5·2	2·69	19	37·7	96	34·2	42·4	8·2	38·3	20·1	55·6	..	8·6	3·69	18
„ 170 „ ..	49·0	93	4	4·3	9·2	49·7	37·0	66·5	29·5	..	..	..	41·1	90	37·8	46·0	8·2	41·9	28·0	58·7	30·7	..	..	..	37·4	98	34·1	41·9	7·8	38·0	20·8	55·0	..	..	..	..
„ 260 „ ..	48·4	..	..	..	..	..	..	..	..	..	2·04	..	40·6	..	..	..	..	..	..	..	..	..	·94	..	37·5	..	..	..	..	..	..	..	..	..	1·44	..
Hillington	50·6	90	43·6	56·7	12·9	50·3	31·1	70·1	39·0	7·3	4·54	22	40·9	88	36·4	46·5	10·1	41·4	23·1	58·4	35·3	7·0	3·17	24	38·0	95	33·9	42·1	8·2	38·0	19·8	53·9	34·1	9·0	3·40	18
Cromer	..	..	..	..	..	..	..	..	..	6·6	4·24	21	..	..	..	..	..	..	..	..	..	6·6	4·37	23	..	..	..	..	..	..	..	..	..	7·3	4·00	20
Somerleyton ..	52·0	86	46·2	57·2	11·0	51·7	31·1	67·1	36·0	6·3	5·06	20	42·4	84	38·0	47·9	9·9	43·0	26·1	59·0	32·9	5·1	3·29	21	38·2	92	34·0	43·7	9·7	38·8	19·9	55·4	35·5	7·5	3·90	22
Lowestoft	52·5	85	46·8	56·8	10·0	51·8	35·6	66·9	31·3	6·7	4·92	19	42·7	85	38·6	48·5	9·9	43·6	29·8	59·5	29·7	6·2	3·48	22	39·0	94	35·3	43·5	8·2	39·4	21·0	55·0	34·0	7·9	3·67	21
Guernsey	54·6	86	50·7	59·4	8·7	55·0	42·4	68·5	26·1	7·2	6·70	23	48·9	83	45·7	53·7	8·0	49·7	34·2	60·9	26·7	7·2	7·37	29	45·2	90	42·2	49·5	7·3	45·9	30·2	55·9	25·7	8·5	5·33	27
Dublin	49·9	86	45·4	54·8	9·4	50·1	32·2	65·4	33·2	6·3	2·80	20	43·1	85	38·9	48·2	9·3	43·5	29·9	58·5	28·6	6·3	3·35	24	37·0	91	33·8	42·5	8·7	38·2	13·3	56·5	43·2	6·7	3·78	21
Killarney	50·1	87	40·3	56·0	15·7	48·1	29·9	63·8	33·9	7·8	6·56	23	44·8	86	38·7	50·4	11·7	44·6	22·1	57·7	35·6	7·4	8·85	28	39·0	93	33·1	44·9	11·8	39·0	11·5	57·8	46·3	7·2	4·75	21

Abstract of Meteorological Observations for the YEAR 1882.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather, No. of days of					Wind, No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o	°	°	In.	In.														
Alnwick	29·843	47·4	45·4	46·4	40·9	54·3	15·3	Dec. 12	81·5	Aug. 10, 11	44·9	43·7	82	87	6·5	5·8	32·87	1·71	May 7	198	28	39	131	1	50	24	38	68	99	122	121	92	116
Cramlington	·844	47·3	45·1	46·2	39·8	53·3	14·8	,, 12	79·9	,, 10	45·0	43·7	84	89	6·8	5·7	31·24	2·19	Aug. 22	213	25	29	106	12	48	70	36	60	53	150	171	127	15
Scaleby	·845	48·3	46·3	47·3	41·0	54·3	15·7	,, 12	75·5	May 18	....	....	..	....	7·4	6·2	38·94	1·00	,, 22	212	6	32	151	46	36	48	99	46	44	252	62	21	122
Scarborough	·866	49·0	47·8	48·4	44·2	53·5	19·3	,, 12	74·7	Aug. 11	46·3	45·7	81	85	6·3	5·8	31·76	1·54	Apr. 29	203	17	29	98	14	49	69	72	46	63	219	147	61	4
Wakefield	·887	49·1	47·8	48·4	41·9	55·5	12·9	,, 12	74·8	,, 12	46·1	45·6	80	84	....	....	33·29	1·54	Jan. 29	221	5	..	..	..	51	60	60	60	99	157	185	58	0
Buxton	....	46·4	43·9	45·1	38·6	52·4	− 4·0	,, 12	74·4	,, 14	44·3	42·7	85	91	7·7	6·7	65·89	1·15	Oct. 20	217	45	15	154	0	13	48	71	59	26	158	136	192	27
Cheadle	·909	46·3	45·8	46·1	40·7	53·3	13·5	,, 12	73·7	,, 12	44·5	44·3	87	88	7·0	6·2	45·84	1·15	Apr. 29	222	23	37	144	24	48	34	100	67	94	128	116	110	33
Llandudno ..	·893	50·5	49·3	49·9	44·9	....	25·5	,, 12	71·2	Oct. 1	47·9	47·2	82	85	7·4	6·5	32·46	1·14	Dec. 25	209	8	35	169	15	39	31	76	44	50	158	269	63	0
Leaton	....	48·5	46·2	47·4	40·1	55·1	12·0	,, 11	78·0	Aug. 12	....	....	....	....	....	....	33·10	·97	Jan. 28	229	11	..	..	..	86	24	46	71	98	95	202	78	30
Churchstoke	·922	48·1	46·0	47·0	40·2	54·5	10·7	,, 12	74·9	,, 9	45·9	44·2	85	87	6·7	6·0	37·52	·93	,, 28	213	20	20	100	17	30	58	34	79	46	153	111	145	74
Cheltenham ..	·923	49·2	47·7	48·5	41·5	56·0	17·0	,, 12	78·1	,, 6	46·6	45·9	82	87	7·3	6·4	37·92	1·15	July 11	214	11	23	136	13	47	18	24	59	108	183	120	65	106
Carmarthen ..	·919	50·6	47·9	49·3	43·1	55·8	19·8	,, 11	77·2	,, 9	48·2	46·4	84	89	7·3	6·1	62·68	1·40	Jan. 8	244	5	35	150	3	59	15	106	28	80	127	109	59	147
Babbacombe	·961	51·5	48·5	50·0	44·5	56·6	20·4	,, 11	78·2	,, 6	48·6	46·8	81	88	7·1	6·1	41·23	1·14	Oct. 23	214	6	32	141	45	54	62	69	36	60	178	155	100	16
Downside	·941	48·3	46·7	47·5	42·1	54·3	13·4	,, 11	72·4	July 29 / Aug. 9	46·4	45·5	86	92	7·1	6·1	53·07	1·40	,, 23	210	10	39	143	45	47	108	19	37	66	244	119	82	8
Marlborough..	·950	48·7	46·7	47·7	41·5	55·4	11·8	,, 11	78·7	Aug. 12	46·4	45·4	85	90	7·4	6·2	43·79	1·25	June 22	208	9	41	165	1	22	15	43	19	66	105	51	42	367
Strathfield T.	·951	50·1	47·7	48·9	41·3	57·9	18·0	,, 11	83·7	,, 6	47·4	46·0	82	88	7·0	5·8	28·48	1·08	Sept. 19	171	10	41	147	0	48	60	34	52	55	209	146	90	36
Norwood	·947	50·0	48·3	49·2	42·9	57·0	22·4	,, 10	80·4	,, 6	47·0	46·2	81	85	7·0	5·9	25·16	·96	,, 28	188	8	41	142	13	45	42	59	32	101	117	175	63	96
Croydon.....	·953	49·8	48·0	48·9	42·8	56·6	18·2	,, 11, 12	79·4	,, 12	46·8	45·9	80	85	7·5	5·2	26·34	·96	Oct. 27	184	11	44	136	16	..	..	..	..	..	..	..	..	..
Southbourne..	·953	50·6	49·3	50·0	44·5	56·0	20·0	,, 11	79·5	,, 6	48·0	47·3	82	86	6·2	5·5	30·82	1·14	,, 15	186	3	47	108	20	77	62	45	49	54	131	147	122	43
Margate	....	50·6	....	....	44·7	55·9	24·8	,, 11	77·9	,, 2	48·0	....	83	....	7·3	....	26·20	·83	Sept. 11	178	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hillington ..	·909	49·4	46·5	47·9	41·1	56·1	19·8	,, 12	79·7	,, 12	47·0	45·2	84	91	7·9	6·9	33·31	1·26	Mar. 25	189	13	13	177	7	25	90	45	82	83	251	63	90	1
Lowestoft	·907	49·9	48·2	49·1	43·4	54·9	21·0	,, 12	76·4	,, 2	47·4	46·4	83	87	6·9	6·2	30·37	·98	Apr. 25	168	6	42	152	5	31	56	70	46	59	158	193	109	8
Dublin	29·881	49·8	49·0	49·4	44·5	55·0	13·3	,, 14, 15	71·4	,, 1	46·9	46·8	81	84	6·5	5·6	31·18	·86	Feb. 28	227	12	38	91	25	32	32	54	60	80	123	230	79	40
Killarney	....	....	....	....	....	56·4	11·5	,, 14	79·3	,, 9	....	....	....	....	....	....	56·82	1·69	Jan. 27	....	..	..	..	..	..	..	..	..	..	..	..	..	..
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

Abstract of Climatological Observations for the YEAR 1882.

Station.	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Alnwick	47·4	82	40·9	54·3	13·4	47·6	15·3	81·5	66·2	6·5	32·87	198
Cramlington	47·3	84	39·8	53·3	13·5	46·6	14·8	79·9	65·1	6·8	31·24	213
Stapleton	47·4	88	40·2	53·2	13·0	46·7	17·1	73·8	56·7	8·0	49·72	226
Scaleby	48·3	..	41·0	54·3	13·3	47·7	15·7	75·5	59·8	7·4	38·94	212
Alston	45·1	84	37·3	51·0	13·7	44·1	3·0	76·8	73·8	7·5	52·51	239
Seathwaite	47·9	82	42·3	..	..	..	19·6	76·5	56·9	8·0	146·09	252
St. Michael's-on-Wyre	49·3	84	41·9	..	..	..	19·5	75·2	55·7	7·6	44·72	215
Blackpool	49·3	84	42·7	53·5	10·8	48·1	18·5	73·3	54·8	6·7	41·42	225
Bolton	47·6	84	40·9	53·4	12·5	47·2	18·4	73·7	55·3	7·9	61·73	240
Scarborough	49·0	81	44·2	53·5	9·3	48·9	19·3	74·7	55·4	6·3	31·76	203
,, (St. Nicholas)	48·1	84	42·3	..	..	..	17·2	75·0	57·8	7·4	33·54	209
Wakefield	49·1	80	41·9	55·5	13·6	48·7	12·9	74·8	61·9	..	33·29	221
Hodsock	48·8	82	40·8	55·8	15·0	48·3	7·7	76·0	68·3	7·0	31·95	210
Macclesfield	47·7	85	41·4	53·5	12·1	47·5	17·6	73·5	55·9	5·9	47·73	223
Buxton	46·4	85	38·6	52·4	13·8	45·5	− 4·0	74·4	78·4	7·7	65·89	217
Beacon Stoop	..	..	..	..	..	..	19·5	68·9	49·4	..	..	..
Oakamoor	..	..	..	..	..	..	11·2	..	..	7·5	52·60	224
Cheadle	46·3	87	40·7	53·3	12·6	47·0	13·5	73·7	60·2	7·0	45·84	222
Belper	47·2	87	41·2	54·2	13·0	47·7	11·5	73·6	62·1	5·2	42·90	206
Strelley	47·6	85	40·6	54·6	14·0	47·6	16·0	76·6	60·6	7·0	37·43	218
Llandudno	50·5	82	44·9	..	..	..	25·5	71·2	45·7	7·4	32·46	209
Chester	49·8	79	42·7	56·3	13·6	49·5	16·3	77·8	61·5	8·0	33·92	213
Leaton	48·5	..	40·1	55·1	15·0	47·6	12·0	78·0	66·0	..	33·10	229
Churchstoke	48·1	85	40·2	54·5	14·3	47·4	10·7	74·9	64·2	6·7	37·52	213
Kenilworth	48·2	84	40·8	55·1	14·3	48·0	17·2	76·5	59·3	7·4	37·44	199
Burghill	49·4	82	41·5	56·7	15·2	49·1	20·1	77·9	57·8	7·3	32·47	205
Ross	50·1	85	42·3	57·1	14·8	49·7	19·6	84·1	64·5	6·7	38·40	221
Cheltenham	49·2	82	41·5	56·0	14·5	48·8	17·0	78·1	61·1	7·3	37·92	214
Marlborough	48·7	85	41·5	55·4	13·9	48·5	11·8	78·7	66·9	7·4	43·79	208
Downside	48·3	86	42·1	54·3	12·2	48·2	13·4	72·4	59·0	7·1	53·07	210
Carmarthen	50·6	84	43·1	55·8	12·7	49·5	19·8	77·2	57·4	7·3	62·68	244
Cardiff	50·0	84	44·0	56·0	12·0	50·0	20·1	76·3	56·2	..	56·60	226
Weston-super-Mare	50·4	86	44·7	55·9	11·2	50·3	19·5	78·2	58·7	6·9	40·14	212
Ilfracombe	52·2	84	47·8	56·2	8·4	52·0	29·1	76·0	46·9	6·8	42·08	218
Bude	51·1	87	44·9	56·0	11·1	50·4	23·1	80·0	56·9	6·6	46·57	175
Helston	51·9	85	46·1	56·3	10·2	51·2	27·7	80·7	53·0	..	49·78	245
Falmouth	52·3	82	46·9	56·0	9·1	51·5	29·4	72·7	43·3	6·9	58·94	238
Maker	50·5	86	45·8	55·8	10·0	50·8	24·5	77·0	52·5	6·7	43·13	237
Ashburton	..	..	..	..	..	..	25·8	77·9	52·1	..	62·12	219
Bridgetown	51·7	80	43·2	58·0	14·8	50·6	15·7	80·3	64·6	6·7	53·66	235

ABSTRACT OF CLIMATOLOGICAL OBSERVATIONS FOR THE YEAR 1882.

Station.	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	°/°	°	°	°	°	°	°	°		In.	
Torquay, C. C.	51·5	84	45·2	56·0	10·8	50·6	22·5	72·6	50·1	7·0	38·46	213
Torquay, R.	50·8	82	44·8	56·1	11·3	50·5	25·9	77·6	51·7	7·1	38·26	215
Babbacombe	51·5	81	44·5	56·6	12·1	50·6	20·4	78·2	57·8	7·1	41·23	214
Teignmouth, B.	51·5	80	45·7	57·0	11·3	51·3	22·2	77·2	55·0	6·9	39·53	188
Teignmouth, W.	52·7	83	43·9	58·7	14·8	51·3	24·8	81·2	56·4	6·4	40·98	218
Sidmouth	50·8	86	44·7	55·7	11·0	50·2	24·9	75·0	50·1	7·5	41·00	226
Brampford Speke	50·3	85	43·2	56·5	13·3	49·9	19·5	75·1	55·6	7·1	41·88	240
Cullompton	50·5	83	42·1	56·7	14·6	49·4	18·2	77·1	58·9	7·0	45·46	236
Weymouth	51·6	81	46·2	56·4	10·2	51·3	26·6	76·8	50·2	5·8	33·46	177
Swanage	51·5	84	45·3	54·7	9·4	50·0	22·5	71·9	49·4	5·9	34·92	172
Bournemouth	50·9	84	43·8	56·5	12·7	50·2	20·0	80·0	60·0	6·0	..	..
Southbourne-on-Sea	50·6	82	44·5	56·0	11·5	50·3	20·0	79·5	59·5	6·2	30·82	186
Southampton	50·6	82	42·2	57·0	14·8	49·6	17·7	78·5	60·8	6·9	32·89	215
Portsmouth	51·4	82	41·3	58·3	17·0	49·8	18·7	84·5	65·8	5·6	29·28	197
Ventnor	52·0	83	46·9	57·1	10·2	52·0	29·3	77·2	47·9	6·2	32·67	185
Worthing	51·6	82	45·1	56·5	11·4	50·8	26·6	81·0	54·4	5·8	32·35	180
Hastings	51·1	82	46·2	56·0	9·8	51·1	27·1	76·3	49·2	6·5	32·44	182
Margate	50·6	83	44·7	55·9	11·2	50·3	24·8	77·9	53·1	7·3	26·20	178
Southend	..	..	44·3	..	..	..	22·1	81·5	59·4	6·6	22·57	140
Harestock	49·6	77	41·9	55·6	13·7	48·8	18·3	78·7	60·4	7·0	34·49	189
Swarraton	48·8	84	41·4	55·7	14·3	48·5	15·4	78·5	63·1	..	34·18	170
Strathfield Turgiss	50·1	82	41·3	57·9	16·6	49·6	18·0	83·7	65·7	7·0	28·48	171
Cranleigh	49·6	87	42·5	56·3	13·8	49·4	14·0	78·9	64·9	7·0	32·57	201
Tunbridge Wells	48·9	90	42·4	54·8	12·4	48·6	19·2	78·1	58·9	7·2	35·09	203
Tunbridge	..	..	..	..	..	..	19·1	81·6	62·5	6·8	30·99	172
Beddington	49·7	83	41·6	56·7	15·1	49·2	19·2	80·3	61·1	6·7	25·45	169
Croydon	49·8	80	42·8	56·6	13·8	49·7	18·2	79·4	61·2	7·5	26·34	184
South Norwood	49·7	84	42·8	56·6	13·8	49·7	19·6	80·5	60·9	7·1	22·86	159
Norwood	50·0	81	42·9	57·0	14·1	50·0	22·4	80·4	58·0	7·0	25·16	188
Isleworth	50·3	82	42·4	57·5	15·1	50·0	21·8	80·4	58·6	7·1	26·33	194
Regent's Park	49·7	81	43·3	56·9	13·6	50·1	22·5	80·0	57·5	..	27·18	169
Finchley	48·7	85	41·1	55·6	14·5	48·4	15·2	78·3	63·1	6·0	28·40	210
Watford	..	..	..	..	..	..	15·2	77·9	62·7	..	33·57	199
Throcking	47·9	88	41·3	55·2	13·9	48·2	19·1	77·6	58·5	6·8	27·92	193
Aspley Guise	49·5	84	41·4	55·7	14·3	48·5	13·9	78·7	64·8	7·0	29·20	182
Hillington	49·4	84	41·1	56·1	15·0	48·6	19·8	79·7	59·9	7·9	33·31	189
Cromer	..	..	..	..	..	..	..	..	..	6·2	30·52	166
Somerleyton	49·6	83	42·8	55·5	12·7	49·2	19·9	74·8	54·9	6·4	31·45	177
Lowestoft	49·9	83	43·4	54·9	11·5	49·2	21·0	76·4	55·4	6·9	30·37	168
Guernsey	52·1	86	47·9	57·3	9·4	52·6	30·2	76·4	46·2	6·7	41·83	217
Dublin	49·8	81	44·5	55·0	10·5	49·8	13·3	71·4	58·1	6·5	31·18	227
Killarney	..	..	..	56·4	..	..	11·5	79·3	67·8	..	56·82	..

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INTRODUCTION.

The Monthly and Yearly Abstracts of Observations made at the Second Order and Climatological Stations, and the Report on the Meteorology of England, were formerly printed as an Appendix to the *Quarterly Journal of the Royal Meteorological Society*. But as the number of Stations increased, more time was required for verifying and discussing the observations; the Council therefore decided not to delay the issue of the *Quarterly Journal*, but to publish the Reports on the Meteorology of England in a separate form under the title of *The Meteorological Record*, of which this is the third volume.

The monthly Tables on pages 10, 12, 14, &c., give the results of the observations at the Second Order Stations, where the readings are taken twice daily, viz. at 9 a.m. and 9 p.m.

Column 1 is the mean of the readings of the Barometer at 9 a.m. and 9 p.m., corrected for temperature and reduced to sea-level.

Column 4 is the mean of the readings of the Dry-Bulb Thermometer at 9 a.m. and 9 p.m.

Columns 5 to 10. The Maximum and Minimum Thermometers are read and set at 9 p.m., and the readings entered to the day on which they are observed.

Columns 13 and 14. The Relative Humidity is calculated by dividing the mean elastic force of aqueous vapour, at the temperature of the dew-point, by that at the temperature of the air (*i.e.* dry-bulb reading).

Columns 15 and 16. The Amount of Cloud is estimated according to the scale 0 to 10; 0 representing a cloudless sky, and 10 a completely covered or overcast sky.

Columns 17 to 20. The Rain is measured at 9 a.m., and the amount entered to the previous day. A fall of 0·006 inch and above constitutes a Day of Rain.

Column 21. When any snow falls it is entered as a Day of Snow.

Columns 22 and 23. When the mean of the 9 a.m. and 9 p.m. observations of the amount of cloud is less than 2·0, this is called a Day of Clear Sky, but when the mean is above 8·0 it is called an Overcast Day.

Column 24. When the Force of the Wind is 7 and above (on the scale 0 to 12) this is counted as a Gale.

Columns 25 to 33 give the sums of the observations of the Direction of the Wind at 9 a.m. and 9 p.m.

The Tables on pages 11, 13, 15, &c., show in a graphic manner the Pheno-

mena observed at the Second Order Stations on each day of the month, and in which ● indicates Rain ; ✱ Snow ; ▲ Hail ; ≡ Fog ; ⊼ Thunderstorm ; ⊤ Thunder ; ≮ Lightning ; ○ Solar Halo ; ☬ Lunar Halo ; and ☫ Aurora.

The Tables on pages 14, 15, 16, &c., contain the results of the observations at the Climatological Stations, where the readings are taken once daily, viz. at 9 a.m. At these Stations the Minimum Temperature is entered to the morning on which it is observed, while the Maximum Temperature and Rainfall are entered to the previous day.

In these Tables the climatological results from the Second Order Stations are also included, but as the Maximum and Minimum Thermometers are read at 9 p.m. and not at 9 a.m., the names of the stations are printed in italics.

The first Table on pages 8, 24, 40, and 56 contains the Mean Maximum, and Minimum Temperatures of the Soil at depths varying from 8 inches to 4 feet below the surface.

The second Table on the same pages shows the total Duration of Bright Sunshine, together with the greatest amount on one day, and the number of days on which no sunshine was registered.

The Table on pages 9, 25, 41 and 57 gives the Maximum and Minimum Temperature and the Duration of Bright Sunshine for each day in the City of London, and at three stations in the Suburbs.

The following is a list of all the Stations, together with the county, the height above sea-level, and the name of the observer.

List of the Stations.

Station.	County.	Above Sea. Feet.	Authority.
Aberystwith	Cardigan	30	Morris Jones, M.R.C.S.
Alnwick	Northumberland	213	J. Lingwood, F.R.Met.Soc.
Alston	Cumberland	1145	T. W. Dickinson.
Ashburton	Devon	584	F. Amery, J.P.
Aspley Guise, Woburn	Bedford	433	E. E. Dymond, J.P., F.R.Met.Soc.
Babbacombe	Devon	293	E. E. Glyde, F.R.Met.Soc.
Beddington	Surrey	102	S. Bostron, F.R.Met.Soc.
Belper	Derby	344	J. Hunter, Jun., F.R.Met.Soc.
Blackpool	Lancashire	31	C. T. Ward, B.A., F.R.Met.Soc.
Bolton	Lancashire	500	Rev. T. Mackereth, F.R.A.S., F.R.Met.Soc.
Bournemouth	Hants	134	Adm. Sir B. J. Sulivan, K.C.B., F.R.Met.Soc.
Brampford Speke	Devon	140	W. H. Gamlen.
Bridgetown, Totnes	Devon	107	T. H. Edmonds.
Bude	Cornwall	16	J. Arthur.
Burghill, Hereford	Hereford	275	T. A. Chapman, M.D.
Buxton	Derby	987	E. J. Sykes, M.B., F.R.A.S., F.R.Met.Soc.
Cardiff	Glamorgan	43	W. Adams, C.E., F.R.Met.Soc.
Carmarthen	Carmarthen	188	G. J. Hearder, M.D.
Cheadle (Tean)	Stafford	646	J. C. Philips, J.P.
Cheltenham	Gloucester	184	R. Tyrer, B.A., F.R.Met.Soc.
Chester	Cheshire	65	A. O. Walker, F.L.S.
Churchstoke	Montgomery	549	P. Wright, F.C.S., F.R.Met.Soc.
Cramlington	Northumberland	265	W. Bonallo, F.R.Met.Soc.
Cromer	Norfolk	90	J. Cooper, F.R.C.S.
Croydon (Addiscombe)	Surrey	201	E. Mawley, F.R.Met.Soc.
Cullompton	Devon	202	T. Turner, J.P., F.R.Met.Soc.
Downside, Radstock	Somerset	592	Rev. T. L. Almond, O.S.B.
Dublin	Dublin	51	J. W. Moore, M.D., F.R.Met.Soc.

List of Stations—*Continued.*

Station.	County.	Above Sea. Feet.	Authority.
Falmouth	Cornwall	175	W. L. Fox, F.R.Met.Soc.
Finchley	Middlesex	275	H. C. Stephens, F.C.S., F.R.Met.Soc.
Guernsey	Channel Isles	180	F. E. Carey, M.D., F.R.Met.Soc.
Harestock, Winchester	Hants	304	Lt. Col. H. S. Knight, F.R.Met.Soc.
Hastings	Sussex	34	J. Peach.
Helston	Cornwall	185	J. Gill.
Hillington	Norfolk	88	Rev. H. E. B. Ffolkes, M.A., F.R.Met.Soc.
Hodsock, Worksop	Notts	56	H. Mellish, F.R.Met.Soc.
Ilfracombe	Devon	25	W. M. Tattam.
Isleworth	Middlesex	68	Miss E. A. Ormerod, F.R.Met.Soc.
Kenilworth	Warwick	290	F. Slade, F.R.Met.Soc., & S. Forrest, F.R.Met.Soc.
Killarney	Kerry	91	Rev. G. R. Wynne, M.A., F.R.Met.Soc.
Leaton, Shrewsbury	Salop	266	Rev. E. V. Pigott, M.A., F.R.Met.Soc.
Llandudno	Carnarvon	79	J. Nicol, M.D., J.P., F.R.Met.Soc.
London, (Old Street)	Middlesex	69	Rev. A. P. Hockin.
Lowestoft	Suffolk	85	S. H. Miller, F.R.A.S., F.R.Met.Soc.
Macclesfield	Cheshire	501	J. Dale, F.R.Met.Soc.
Maker, Devonport	Cornwall	290	Rev. P. H. Newnham, M.A., F.R.Met.Soc.
Margate	Kent	83	J. Stokes, F.R.Met.Soc.
Marlborough	Wilts	471	Rev. T. A. Preston, M.A., F.R.Met.Soc.
Norwood	Surrey	184	W. Marriott, F.R.Met.Soc.
Oakamoor	Stafford	350	G. Williams.
Portsmouth	Hants	20	R. E. Power, L.R.C.P.
Ramsgate	Kent	90	M. Jackson, F.R.Met.Soc.
Regent's Park	Middlesex	125	W. Sowerby, F.L.S., F.R.Met.Soc.
Rounton	Yorkshire	242	I. L. Bell, F.R.S., F.R.Met.Soc.
Ross	Hereford	218	H. Southall, F.R.Met.Soc.
Scaleby	Cumberland	111	R. A. Allison, F.R.Met.Soc.
Scarborough	Yorkshire	130	A. Rowntree, F.R.Met.Soc.
Scarborough (St. Nicholas)	Yorkshire	157	J. McClelland.
Seathwaite	Cumberland	422	W. Dixon.
Sidmouth	Devon	186	W. T. Radford, M.D., F.R.Met.Soc.
Somerleyton	Suffolk	50	Rev. C. J. Steward, M.A., F.R.Met.Soc.
Southampton (Highfield)	Hants	136	Rev. H. Garrett, M.A., F.R.Met.Soc.
Southbourne-on-Sea	Hants	90	T. A. Compton, B.A., M.D., F.R.Met.Soc.
Southend	Essex	100	G. Lingwood.
South Norwood	Surrey	190	W. F. Stanley, F.R.Met.Soc.
St. Michael's-on-Wyre	Lancashire	26	Rev. P. J. Hornby.
Stapleton	Cumberland	400	A. W. Stirling, M.B., F.R.Met.Soc.
Stowell	Dorset	376	Rev. H. J. Poole, F.R.Met.Soc.
Strathfield Turgiss	Hants	195	Rev. C. H. Griffith, F.R.Met.Soc.
Strelley	Notts	396	T. L. K. Edge, F.R.Met.Soc.
Swanage	Dorset	178	B. Jumeaux, L.R.C.P., F.R.Met.Soc.
Swarraton, Alresford	Hants	310	Rev. W. L. W. Eyre, M.A., F.R.Met.Soc.
Teignmouth (Bitton)	Devon	70	W. C. Lake, M.D.
,, (Woodway)	Devon	235	G. W. Ormerod, M.A., F.G.S., F.R.Met.Soc.
Throcking, Buntingford	Herts	484	Rev. C. W. Harvey, M.A., F.R.Met.Soc.
Torquay (Castle College)	Devon	166	C. J. Harland.
Tunbridge	Kent	99	W. C. Punnett, F.R.Met.Soc.
Tunbridge Wells	Kent	500	F. Green, M.A., F.R.Met.Soc.
Ventnor	Isle of Wight	80	H. Sagar.
Wakefield	Yorkshire	96	H. Clarke, L.R.C.P., F.R.Met.Soc.
Watford	Herts	223	J. Hopkinson, F.L.S., F.R.Met.Soc.
Weston-super-Mare	Somerset	20	W. E. Perrett.
Weymouth	Dorset	79	T. Groves, F.C.S.
Worthing	Sussex	21	W. J. Harris, M.R.C.S., F.R.Met.Soc.

ERRATA.

BUXTON	March 1883	Rainfall, *for* 1·82 in. *read* 1·83 in.
CHURCHSTOKE	June ,,	Rainfall, *for* 1·97 in. *read* 2·80 ins.
,,	,, ,,	Greatest fall, *for* ·57 in. on 19th, *read* ·61 in. on 15th.
,,	,, ,,	No. of rainy days, *for* 14 *read* 18.
,,	Sept. ,,	Rainfall, *for* 5·48 ins. *read* 5·49 ins.
CROMER	Feb. ,,	,, 2·67 ins. ,, 2·69 ins.
,,	,, ,,	No. of rainy days, *for* 15 *read* 16.
,,	June ,,	Rainfall, *for* 3·57 ins. *read* 3·87 ins.
,,	,, ,,	No. of rainy days, *for* 10 *read* 11.
HARESTOCK	Jan ,,	Temperature at 9 a.m., for 40°·4 *read* 40°·0
,,	,, ,,	Humidity ,, ,, 84 ,, 91
,,	Feb. ,,	Temperature ,, ,, 41°·8 ,, 41°·4
,,	,, ,,	Humidity ,, ,, 86 ,, 93
,,	March ,,	Temperature ,, ,, 36°·0 ,, 35°·6
,,	,, ,,	Humidity ,, ,, 72 ,, 81
,,	April ,,	Temperature ,, ,, 46°·5 ,, 46°·1
,,	,, ,,	Humidity ,, ,, 72 ,, 78
,,	May ,,	Temperature ,, ,, 52°·7 ,, 52°·3
,,	,, ,,	Humidity ,, ,, 70 ,, 75
,,	June ,,	Temperature ,, ,, 58°·8 ,, 58°·4
,,	,, ,,	Humidity ,, ,, 69 ,, 74
HODSOCK	Annual Table 1881	Mean Amount of Cloud, *for* 7·7 *read* 6·7
MACCLESFIELD	Feb. 1883	Rainfall, *for* 2·26 ins. *read* 2·29 ins.
,,	,, ,,	No. of rainy days, *for* 18 *read* 19.
MARGATE	Sept. 1882	Mean Pressure, *for* 29·853 ins. *read* 29·854 ins.
,,	Oct. ,,	Mean Pressure, *for* 29·827 ins. *read* 29·828 ins.
,,	Dec. ,,	Mean Pressure, *for* 29·667 ins. *read* 29·670 ins.
REGENT'S PARK	April, 1883	Mean Earth Temperature at 1 ft., *for* 44°·8 *read* 44°·9.
,,	,, ,,	Mean Earth Temperature at 4 ft., *for* 43°·0 *read* 43°·1.
THROCKING	July ,,	Rainfall, *for* 3·59 ins. *read* 3·44 ins.
,,	,, ,,	No. of rainy days, *for* 16 *read* 15.

THE METEOROLOGICAL RECORD.

MONTHLY RESULTS OF OBSERVATIONS

MADE AT THE

STATIONS OF THE

METEOROLOGICAL SOCIETY,

WITH

REMARKS ON THE WEATHER

FOR THE QUARTER ENDING

MARCH 31ST, 1883.

BY

WILLIAM MARRIOTT, F.M.S.,

Assistant-Secretary.

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THE METEOROLOGICAL RECORD.

REMARKS

ON THE

WEATHER OVER ENGLAND

FOR THE QUARTER ENDING MARCH 31ST, 1888.

DURING January and the greater part of February the weather was very mild, dull and wet, but the last week of February and the first week of March were fine and dry; on the 7th of March, however, a spell of bitterly cold and dry weather set in which continued till the 29th. The heavy rains of January and February caused serious floods in many places, and rendered the ground, owing to its saturated condition, unworkable for agricultural purposes. Vegetation was in very a forward state during January and February, but the exceedingly cold and dry weather of March checked the growth, and also dried the soil, which was thus brought into a good condition for farming operations. (For an extended account of the cold weather of March, see page 4.)

AIR TEMPERATURE was slightly above the average.

In *January* the mean temperature (mean of maximum and minimum) was 41°·1, and it varied from 46°·5 at Helston, 46°·2 at Falmouth, 45°·6 at Ilfracombe, and 44°·8 at Maker and Torquay, to 34°·9 at Alston, 35°·8 at Buxton, 37°·2 at Stapleton, and 37°·5 at Cramlington. The weather was very mild and damp throughout the month. The maximum temperature occurred mostly on the 1st, the highest readings being 57°·1 at South Norwood, 56°·5 at Ilfracombe, 56°·2 at Burghill, 56°·1 at Churchstoke, Helston and Wakefield, and 56°·0 at Cheltenham. The minimum temperature took place generally on the 31st. The lowest readings were:—On the 21st, 8°·0 at Buxton; and on the 31st, 11°·8 at Alston, 20°·3 at Oakamoor, 22°·4 at Hodsock, and 23°·0 at Rounton. The mean daily range of temperature was 9°·1.

In *February* the mean temperature was 42°·7, and varied from 46°·1 at Ilfracombe, 45°·9 at Helston, 45°·7 at Ventnor, 45°·1 at Falmouth, and 44°·9 at Weymouth, to 36°·8 at Alston, 39°·4 at Buxton and Stapleton, 40°·4 at Cramlington, and 40°·7 at Cheadle. The weather throughout the month was very mild; being wet and dull from the 1st to the 19th, but fine and dry from the 20th to the 28th. The maximum temperature occurred on various dates between the 20th and 28th, the highest readings being:—On the 20th, 56°·7 at Macclesfield; on the 21st, 57°·8 at Chester; on the 24th, 58°·8 at Ross; on the 25th, 58°·7 at Burghill; on the 27th,

57°·6 at Babbacombe and Teignmouth; and on the 28th, 56°·8 at Bridgetown. The minimum temperature took place on the 1st, the lowest readings being:—14°·0 at Alston, 25°·3 at Bridgetown, 25°·4 at Hodsock, and 26°·0 at Cullompton and Leaton. The mean daily range of temperature was 11°·3.

In *March* the mean temperature was greatly below the average, the mean being 36°·6, and varied from 40°·7 at Ilfracombe, 40°·6 at Falmouth, 40°·5 at Helston, 40°·0 at Teignmouth, and 39°·9 at Ventnor, to 30°·2 at Alston, 31°·4 at Buxton, 33°·7 at Oakamoor and Rounton, and 34°·1 at Macclesfield. The weather was mild from the 1st to the 6th, and on the 30th and 31st, but bitterly keen and cold from the 7th to the 29th. The maximum temperature occurred on the 1st, 4th, and 5th. The highest readings were:—On the 1st, 58°·3 at Carmarthen, and 57°·5 at Bridgetown and Bude; on the 4th, 59°·8 at Seathwaite, and 59°·4 at Cramlington; and on the 5th, 58°·5 at Maker, and 58°·4 at Teignmouth. The minimum temperature took place mostly on the 10th. The lowest readings were:—On the 9th, 7°·2 at Alston, and 12°·9 at Scaleby; on the 10th, 5°·0 at Buxton, 5°·3 at Hodsock, and 11°·2 at Churchstoke; on the 15th, 4°·8 at Alston, and 12°·1 at Rounton; on the 24th, 13°·8 at Strathfield Turgiss; and on the 27th, 13°·1 at Swarraton. The mean daily range of temperature was 13°·5.

Atmospheric Pressure was about the average.

In *January* the pressure was below the average, the mean reduced to sea level being 29·86 ins. The highest readings were in the South-east and lowest in the North-west. The pressure oscillated considerably during the month, and was high from the 6th to the 8th, and 21st to 23rd, and low from the 12th to the 15th, and 25th to 31st. The maximum occurred on the 23rd, the highest reading being 30·690 ins. at 9 a.m. at Lowestoft. The minimum took place on the 26th, the lowest reading being 28·465 ins. at 9 a.m. at Alnwick.

In *February* the pressure was much higher than in the preceding month, the mean being 30·02 ins. The highest readings were in the South-east and the lowest in the North-west. The pressure was changeable and low from the 1st to the 14th, and high from the 15th to the end of the month, especially from the 21st to the 28th. The maximum occurred on the 23rd, the highest reading being 30·886 ins. at Babbacombe. The minimum took place on the morning of the 2nd, the lowest reading being 28·772 ins. at Babbacombe. The total range of pressure at Babbacombe was therefore 2·114 ins.

In *March* the pressure was about the average, the mean being 29·95 ins. The highest readings were in the West, and the lowest in the East. The pressure was high from the 1st to the 7th, and low or unsteady from the 8th to the 31st. The maximum occurred on the 3rd or 4th, the highest reading being 30·798 ins. at 9 p.m. on the 3rd at Hillington. The minimum took place in the South on the 26th, and in the North and West on the 30th, the lowest reading being 29·009 ins. at 9 a.m. on the 30th at Scaleby

Rainfall was in excess of the average.

In *January* both the rainfall and number of rainy days were bove the average. The monthly falls varied from 2·07 ins. at Seathwaite, 7·88 ins.

at Ashburton, 6·96 ins. at Bolton, 6·76 ins. at Buxton, and 6·04 ins. at Carmarthen, to 1·11 in. at Southend, 1·14 in. at Ramsgate, 1·44 in. at Margate, 1·47 in. at Scarborough, 1·50 in. at South Norwood, 1·74 in. at Lowestoft, and 1·75 in. at Throcking. Heavy rain fell generally from the 24th to the 29th. Although the monthly falls were heavy, at only four stations did the amount registered in 24 hours exceed 1 in. Snow fell at one or two places from the 9th to the 13th, and more generally from the 24th to the 31st. Hail occurred on the 2nd, 9th, 10th, 24th to 27th, and 29th to 31st.

In *February* the rainfall and number of rainy days were greatly in excess of the average. The monthly falls varied from 17·80 ins. at Seathwaite, 10·10 ins. at Ashburton, 7·67 ins. at Bridgetown, 7·23 ins. at Falmouth, 6·87 ins. at Brampford Speke and 6·22 ins. at Teignmouth, to 1·42 in. at Cramlington, 1·51 in. at Scaleby, 1·87 in. at Blackpool, 1·93 in. at Southend, and 2·00 ins. at Leaton. Rain fell almost daily from the 1st to the 20th. The heaviest falls occurred in the South-west on the 1st (where the amounts exceeded 1 in.), and in the other districts on various dates. Snow occurred on several days, but mostly on the 1st and 7th. Hail fell on the 1st to 3rd, 11th to 13th, 15th, and 19th. Thunderstorms occurred on the 1st and 15th.

In *March* the rainfall and number of rainy days were very small. The monthly falls varied from 6·66 ins. at Seathwaite, 2·69 ins. at Alston, 2·51 ins. at Falmouth, 2·44 ins. at Helston, and 2·11 ins. at Alnwick, to 0·48 in. at Ilfracombe, 0·60 in. at Cardiff, 0·64 in. at Portsmouth and Throcking, 0·65 in. at Southend, and 0·66 in. at Ventnor. Showers of snow and hail were of frequent occurrence, in fact very little rain fell during the month.

Wind.—In *January* the prevalent direction of the wind was South-west from the 1st to the 6th, East or South-east from the 7th to the 14th, and West or South-west from the 15th to the 31st. The wind was strong in force throughout the month, and gales occurred on several occasions. In *February* the wind blew chiefly from the South-west throughout the month. Gales occurred on several days, that on the 2nd being very severe. In *March* the general direction of the wind was North-east from the 1st to the 10th, variable from the 11th to the 15th, West from the 16th to the 18th, East or North-east from the 19th to the 24th, North-west from the 26th to the 28th, and South or South-west from the 29th to the 31st. A severe Northerly gale occurred on the Eastern coast on the 6th, and a keen Easterly gale was experienced in the South on the 22nd and 23rd.

Fog occurred on *January* 1st, 3rd to 8th, 10th to 14th, 16th to 22nd, 24th, 25th, 30th and 31st; *February* 1st, 2nd, 5th to 10th, 15th to 21st, and 24th to 28th; and *March* 1st to 5th, 9th to 12th, 14th, 15th, 17th, 19th, 20th, 24th to 28th, and 31st.

Halos were observed on *January* 6th, 13th to 15th, 18th to 21st, 23rd, 27th to 29th, and 31st; *February* 1st, 3rd to 5th, 12th, 13th, 15th to 19th, 22nd, 26th, and 27th; and *March* 10th, 13th to 16th, 19th, and 31st.

Aurora was seen on *January* 6th and 7th; *February* 1st and 24th; and *March* 1st.

The Cold Weather of March, 1883. By William Marriott, F.M.S.

[Read before the Meteorological Society, April 18th, 1883.]

The month of March 1883 will long be remembered for its very cold, dry, and windy weather.

The weather during the winter was very mild, dull and wet, and continued so till the beginning of March. A sudden change, however, took place on the 6th. A severe Northerly gale set in suddenly on that day, accompanied by snow showers. This gale was most violent in the North Sea, and caused sad havoc among the fishing fleet on our East coast—no less than 382 men and boys being drowned. Under the influence of this strong Northerly wind, the temperature fell considerably, the maximum for the 7th almost all over the country being below 40°, and in the North of England only a trifle above the freezing point. The same conditions prevailed for the next two or three days, the temperature, however, falling still lower, and on the morning of the 10th, the minimum for the month occurred at the Central and Northern stations. The lowest readings on this day were, 5°·0 at Buxton, 5°·3 at Hodsock, 11°·2 at Churchstoke, 11°·5 at Alston, 13°·7 at Oakamoor, 14°·1 at Wakefield, 15°·2 at Strelley, 15°·8 at Macclesfield, and 16°·4 at Kenilworth.

Under a quieter atmosphere, the temperature from the 11th to the 21st rose somewhat higher during the day and fell below the freezing point at night.

The most remarkable weather of the month occurred from the 21st to the 24th. Owing to a brisk fall of the barometer over France an Easterly gale was experienced over this country. As the temperature was low and the air very dry, the wind was exceedingly bitter and keen, and its effect upon the human frame was very distressing.

The wind had moderated by the 24th, and on the morning of this day the minimum temperature of the month took place in the Southern districts. The lowest readings were :—18°·8 at Strathfield Turgiss, 15°·5 at Buxton, 15°·8 at Oakamoor, 16°·5 at Kenilworth, 16°·5 at Cheltenham, 17°·2 at Churchstoke, 17°·4 at Leaton, and 17°·5 at Throcking.

After this date the weather was less severe, and from the 29th, under the influence of a South-west wind, the temperature rose considerably—the maximum in the South-west reaching 56° on the 30th.

The readings at the several stations show that the cold and dryness of March were general all over the country. The minimum temperature fell below the freezing point twenty-five times at many stations, and thirteen times at most of the sea-side health resorts. The stations with the least number of frosts were :—Ilfracombe 5, Falmouth 10, Llandudno 11, Aberystwith, Helston, Swanage, Teignmouth, and Ventnor 13.

The isothermal chart shows that the mean temperature was from 5° to 7° below the average temperature of March as deduced by Mr. Buchan from twenty-four years' observations.

The air was particularly dry throughout the month, and especially from

the 6th to the 9th, and from the 22nd to the 29th. As the temperature was often below the freezing point, the wet-bulb thermometer required special attention. The mean relative humidity values show that the South coast stations were the driest. The air was driest on Good Friday, the 23rd. The following are some of the relative humidity values for 9 a.m. on this day:—

44 at Harestock	52 at Ventnor	53 at Stowell
49 ,, Downside	53 ,, Bournemouth	54 ,, Maker
50 ,, Cheltenham	53 ,, Margate	54 ,, Norwood
50 ,, Marlborough	53 ,, Southampton	54 ,, Southbourne

Evidently the South coast health resorts were no better off on this day than other places.

The winds of this month were bitter and piercing, and being so cold and dry they were correspondingly trying and injurious. Dr. Arthur Mitchell, in a "Note on the Weather of 1867, and on some effects of East winds[1]" says, "Such winds blowing over a moist surface, like that, for instance, of the human body, tend to reduce the temperature of that surface to the temperature of evaporation, which in this case is much below that of the air itself. In licking up the moisture—that is, in causing its evaporation—a large amount of heat is rendered latent. This heat must be taken from something, and, in point of fact, our bodies are, and must be, almost its entire source. A cold and dry wind, therefore, cools the surface of our bodies, not simply by enveloping them in a cool medium, and warming itself by conduction at their expense. It does this of course; but, being dry as well as cold, it does it with less activity than it would if moist and cold—damp air being a better conductor than dry air. It is chiefly, however, by the other mode that dry cold winds abstract heat from our bodies,—that is, by using their heat in the conversion of moisture into vapour. The heat so used becomes latent, and is for the time being lost. It does not raise the temperature of the air in immediate contact with the body. On the contrary, that air itself, low as its temperature may be, gives up some of its heat to become latent in the vaporised moisture, and probably gives up more than it gains from our bodies by conduction, so that the temperature of the film of air actually in contact with our bodies may be, and probably is, a little lower than the temperature of the bulk. The quantity of heat which our bodies lose in this way is far from insignificant, and the loss cannot be sustained without involving extensive and important physiological actions, and without influencing the state of health. In feeble and delicate constitutions, the resources of nature prove insufficient to meet the demand made on them, and a condition of disease then ensues."

It is evident that the more of this wind that blows over us, the greater will be the evaporation, and the greater the loss of heat from the surface of our bodies. Bearing this in mind, and looking at the relative humidity values given above, when the wind was also blowing a gale, can we be surprised

[1] *Journal of the Scottish Meteorological Society*, Vol. II. p. 80.

that there should be a marked increase in the number of deaths referred to diseases of the respiratory organs? The Registrar General gives the following particulars in his *Weekly Returns of Births and Deaths*:—

Deaths referred to Diseases of the Respiratory Organs.

Week ending.	Mar. 3.	Mar. 10.	Mar. 17.	Mar. 24.	Mar. 31.	April 7.
Total	388	395	548	598	672	612
Bronchitis	..	..	349	391	417	379
Pneumonia.....	..	..	115	146	150	154
Diff. from Average	−130	−106	+62	+95	+152	+129

Throughout the whole of January and February and up to the week ending the 10th of March, the number of deaths referred to diseases of the respiratory organs had been below the average, but from that time the number of deaths rapidly increased, and during the week ending the 31st rose to 672, or 152 above the average.

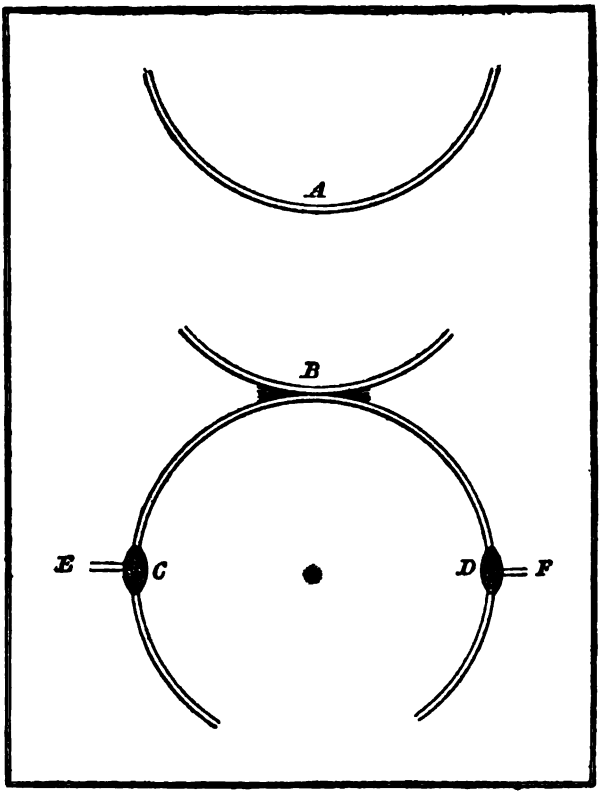
With regard to vegetation Mr. Mawley writes from Croydon: "The severe frosts and cold winds, coming as they did immediately after an extremely mild and dripping winter, found vegetation generally in an unusually forward condition, and consequently taken altogether a very considerable amount of injury was done in this and other London districts. The growth of the young wheat plant and also that of the young grass received a very decided if not rather serious check. To hard-wooded plants, such as early flowering shrubs, roses, &c., but little permanent injury appears to have been effected, although, of course, the new shoots were in many cases entirely destroyed. Vegetables and all forward herbaceous plants growing in exposed situations suffered, however, severely, and in some instances were killed outright. To the intense frost of the 24th is no doubt to be attributed much of this injury, but there is good reason for believing that the strong Easterly winds of the three previous days are also answerable for a large proportion. All things considered, however, I cannot but think that both on farm and in garden the cold dry weather of March came this year most opportunely, and acted as a welcome check to the unusually forward and indeed dangerously early growths. In fact, the damage done was more than counterbalanced by the good it thus effected, and more especially by the frosts pulverising the soil and breaking up the sodden surface, the result of the preceding five months of almost incessant rains."

At the Royal Observatory, Greenwich, the mean maximum temperature was 44°·1, and the mean minimum 29°·8; giving a mean temperature of 36°·7. There is no record of a March with so low a mean temperature since 1845, when it was 36°·6, or 0°·1 lower; the mean minimum in that year, however, was 30°·8, or 1°·5 higher than in 1883. March 1814 was colder still; and Mr. Glaisher, in his Paper in the *Philosophical Tranactions*, shows that in 1785, 1786, and 1789 the month of March was colder than any March since that time has been.

Observations of the Solar Halo with Parhelia, seen at the Radcliffe Observatory, Oxford, on March 16th, 1883. By W. H. Robinson.

[Read before the Meteorological Society, March 21st, 1883.]

The solar halo (¾ths of a complete circle being visible) was very distinct at 8 a.m., its radius being about 22°, as measured with the 10-foot equatorial. At 8.40 my attention was first attracted to a brilliant isolated arc (A)—like an inverted rainbow—about 20° from the circumference of the halo. It became very bright indeed at 8.45, when each of the principal prismatic colours was distinctly seen. The order was noted of the colours of this arc,



Solar Halo with Parhelia, seen at Oxford, March 16th, 1883.

the outermost border being red, the innermost violet. This was the reverse of the order of the colours as plainly seen in the very bright parts of the circumference of the halo surrounding the sun. At 8.46 I noticed a coloured contact-arch at the highest part of the halo (B); also, at each of the two opposite parts of the circumference of the halo, where the parhelic circle cuts it (C and D), was a very bright coloured patch; and beyond, on each side, and extending about 2°, was a luminous white bar (E and F). The whole was best seen at 8.46. At 9.5 the parhelia had almost disappeared, but the halo remained visible till later in the day.

TEMPERATURE OF THE SOIL AT 9 A.M.

Station.	Depth below the Surface.	January.			February.			March.		
		Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.
		°	°	°	°	°	°	°	°	°
Aspley Guise	3 ins.	39·0	47·1	34·1	39·1	44·5	33·9	36·3	44·8	33·2
Babbacombe	6 ins.	43·7	50·0	40·1	43·0	45·9	39·0	40·5	46·3	36·2
Marlborough	6 ,,	39·5	48·5	35·0	39·7	45·5	34·9	36·5	43·4	33·1
Croydon	6 ,,	40·5	48·8	35·5	40·2	45·0	36·5	36·5	43·8	33·2
Aspley Guise	6 ,,	39·3	46·7	34·8	39·5	44·3	34·8	36·9	44·9	33·8
Alnwick	1 ft.	38·6	43·5	36·0	39·9	46·0	36·0	37·6	43·5	35·9
Rounton	1 ,,	38·4	42·0	36·0	39·0	42·0	35·5	37·1	42·0	35·0
Hodsock	1 ,,	39·3	43·3	37·2	39·7	42·7	36·2	38·6	43·3	36·5
Oakamoor	1 ,,	38·5	40·3	36·0	38·0	41·3	33·4	36·6	41·0	34·1
Strelley	1 ,,	38·8	44·2	36·2	39·4	42·7	36·2	37·1	43·2	34·9
Marlborough	1 ,,	40·7	47·2	37·0	40·5	44·0	36·9	38·2	44·0	35·1
Cardiff	1 ,,	43·2	48·2	40·5	42·6	44·6	40·2	38·8	44·5	36·4
Babbacombe	1 ,,	44·7	49·7	42·0	44·0	45·4	41·4	42·1	47·0	39·1
Cullompton	1 ,,	43·0	48·4	39·3	43·0	45·0	40·0	40·8	45·8	38·0
Southampton	1 ,,	43·0	48·6	40·1	42·3	44·5	39·8	40·2	44·9	37·0
Worthing	1 ,,	42·8	47·4	39·3	42·1	44·1	39·7	40·1	44·3	37·0
St. Leonard's	1 ,,	43·2	48·2	39·6	42·8	44·6	41·2	40·8	44·6	38·0
Harestock	1 ,,	43·0	48·1	39·9	42·2	43·9	40·2	38·3	44·1	36·0
Croydon	1 ,,	41·3	47·8	37·0	40·8	43·9	38·0	37·7	43·5	34·8
Norwood	1 ,,	41·0	47·1	37·1	40·4	43·2	37·4	37·8	43·1	35·1
Isleworth	1 ,,	41·1	47·9	37·2	40·5	43·2	37·3	38·7	44·1	35·9
Regent's Park	1 ,,	41·1	48·0	37·0	40·2	43·0	36·0	38·0	44·3	35·7
Aspley Guise	1 ,,	39·8	46·1	35·9	39·7	43·8	35·5	37·5	44·5	34·8
Lowestoft	1 ,,	40·2	45·1	36·8	40·8	43·5	38·7	38·0	43·0	35·8
Marlborough	1½ ft.	41·6	46·6	39·1	41·0	42·9	38·9	39·5	43·9	37·1
Alnwick	2 ft.	43·0	44·5	42·0	43·2	45·5	41·0	42·5	46·0	41·0
Oakamoor	2 ,,	40·1	41·7	39·0	37·7	40·5	34·9	37·6	41·0	35·9
Marlborough	2 ,,	42·6	45·5	40·8	41·6	42·9	40·2	40·7	43·6	39·1
Harestock	2 ,,	43·7	46·5	41·9	42·5	43·2	41·6	40·0	43·4	38·4
Isleworth	2 ,,	42·7	46·5	40·1	41·6	43·2	40·0	40·3	43·9	38·6
Aspley Guise	2 ,,	41·5	45·2	38·9	40·9	43·2	38·6	39·8	44·0	37·7
Lowestoft	2 ,,	40·6	44·0	37·5	40·9	42·5	38·8	38·2	42·0	36·0
Cardiff	4 ft.	46·3	47·3	45·5	45·2	45·5	45·0	43·9	45·5	42·1
Harestock	4 ,,	45·1	46·0	44·0	43·6	44·0	43·3	42·6	44·0	41·2
Regent's Park	4 ,,	43·3	45·0	41·7	41·5	42·5	40·5	41·1	42·7	40·0
Aspley Guise	4 ,,	43·2	44·6	41·8	42·0	42·9	41·3	41·6	43·6	40·4
Lowestoft	4 ,,	42·9	44·3	41·5	42·2	43·0	41·5	41·0	43·0	39·1

DURATION OF BRIGHT SUNSHINE.

Station.	Total amount.			Greatest amount on one day.			No. of days on which no Sunshine was registered.		
	Jan.	Feb.	Mar.	Jan.	Feb.	Mar.	Jan.	Feb.	Mar.
	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.			
Blackpool	42	71	..	6·5	7·4	11·4	17	7	..
Hodsock	45	75	140	6·6	6·9	9·6	15	7	7
Buxton	32	64	104	7·0	7·5	10·3	19	11	6
Strelley	50	71	130	6·6	6·9	10·8	15	8	6
Llandudno	51	88	102	7·0	6·9	9·0	15	5	7
Churchstoke	39	88	117	6·1	7·9	11·0	14	3	3
Marlborough	53	92	167	6·2	8·3	10·5	14	5	2
Cullompton	44	79	178	5·4	7·2	11·2	11	6	3
Southbourne	58	90	169	7·3	9·0	9·3	14	10	2
St. Leonard's	62	86	177	6·7	9·7	10·5	12	12	4
Harestock	62	76	172	6·8	9·2	10·8	16	6	2
Croydon	42	70	107	5·7	8·0	8·8	16	8	3
Kew	46	72	142	5·6	8·9	10·7	16	9	1
Greenwich	34	49	118	5·1	6·8	9·7	15	9	2
London, Bunhill Row	18	29	90	4·1	4·0	7·5	19	9	5
Aspley Guise	56	78	138	7·3	9·0	10·0	17	10	2
Hillington	46	97	124	6·2	8·0	9·3	13	8	6

Date.	JANUARY.											FEBRUARY.											MARCH.										
	Max. Temp.				Min. Temp.				Sunshine.			Max. Temp.				Min. Temp.				Sunshine.			Max. Temp.				Min. Temp.				Sunshine.		
	Old Street.	Regent's Park.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Bunhill Row.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Bunhill Row.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Bunhill Row.	Greenwich.	Kew.
	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.
1	55·6	55·0	55·0	54·8	50·2	51·2	51·7	52·0	1·7	..	..	47·4	46·0	41·8	41·6	33·1	32·0	32·0	32·2	..	0·8	..	48·3	49·6	48·6	48·4	46·5	44·5	41·0	42·9	..	..	0·5
2	50·9	50·8	51·8	52·4	47·6	45·0	43·2	44·6	..	3·5	4·9	49·6	48·3	48·4	48·5	35·0	32·8	36·4	38·2	1·2	0·1	..	46·3	45·0	45·4	44·1	39·9	38·8	35·5	38·1	1·5	1·1	0·4
3	47·7	46·0	47·8	48·8	43·2	44·0	42·0	42·6	..	..	..	46·0	44·5	45·5	45·5	38·1	37·0	36·5	37·6	3·1	4·4	6·2	49·2	47·5	49·1	47·6	34·0	33·0	30·8	29·3	6·2	8·6	6·4
4	47·7	46·0	45·3	45·6	42·5	41·0	37·5	39·1	..	..	..	48·5	49·5	50·3	49·3	38·2	37·0	36·7	37·2	1·2	5·0	6·8	50·6	49·4	49·9	47·5	33·0	31·0	29·2	30·5	5·6	8·5	2·4
5	49·9	49·0	49·2	48·8	42·1	41·0	37·5	39·6	..	0·1	0·5	49·2	49·6	50·2	49·4	40·0	39·5	37·2	37·5	0·6	2·5	3·6	53·9	55·0	52·1	53·5	32·1	30·8	30·7	30·4	4·1	4·4	6·4
6	45·3	45·5	45·2	44·7	38·2	35·8	36·1	35·9	0·4	1·1	4·3	44·8	44·2	45·2	44·8	34·6	33·0	33·4	34·6	2·2	6·8	7·2	42·1	41·5	43·3	41·6	33·5	33·8	30·2	30·7	2·8	3·7	4·7
7	40·4	40·2	41·0	40·5	38·3	38·0	36·0	37·6	..	0·7	..	44·1	43·0	44·0	44·6	36·0	35·5	36·7	38·0	..	..	..	38·9	35·2	38·5	37·1	30·6	29·0	28·2	29·8	2·2	1·8	3·0
8	41·9	40·5	41·3	40·3	33·0	31·0	30·3	32·0	2·0	4·6	2·8	54·0	53·0	53·1	53·2	38·9	39·0	39·4	41·4	..	..	..	35·7	38·6	37·0	34·6	25·8	24·0	23·8	25·3	6·1	5·5	8·1
9	41·4	40·5	38·2	39·3	34·8	34·0	32·2	33·8	1·6	4·0	3·8	49·3	48·4	48·4	48·1	38·5	38·5	38·2	38·5	0·6	2·9	2·7	36·7	36·0	37·3	34·9	24·6	24·0	23·4	25·0	3·8	7·1	9·3
10	43·4	43·0	42·6	42·5	34·4	35·0	35·5	36·9	..	..	..	49·9	49·5	48·7	49·1	40·3	39·0	41·6	43·6	0·1	..	..	35·5	37·5	36·7	35·3	24·1	22·5	22·6	24·3	0·8	2·9	5·8
11	42·0	41·2	40·5	42·7	40·1	39·0	38·0	40·1	..	..	..	49·2	48·5	47·8	46·4	41·2	39·8	39·8	40·5	3·3	4·1	4·9	39·7	40·0	40·4	39·9	28·0	25·8	25·6	26·3	0·5	0·9	1·5
12	42·6	41·0	40·9	41·9	38·2	37·5	37·3	38·3	..	..	..	49·5	49·0	49·1	48·8	41·7	41·0	41·2	42·6	0·8	0·3	..	39·4	39·7	40·4	39·5	28·7	27·0	27·9	28·3	3·7	4·5	8·2
13	45·4	44·5	44·7	45·6	39·4	38·5	34·4	36·4	..	0·1	0·2	48·1	48·8	48·7	47·2	41·2	39·8	37·9	39·0	3·4	5·3	5·4	43·5	44·0	44·3	42·7	29·5	27·5	26·9	27·9	2·0	4·2	6·6
14	46·8	43·0	42·2	43·1	35·0	34·0	33·7	35·6	..	0·5	0·2	49·0	47·5	47·0	48·0	40·2	41·0	40·5	40·5	0·5	..		45·1	45·6	43·7	45·0	33·2	32·4	32·4	33·1	1·5	0·7	4·7
15	48·9	48·0	48·2	47·6	37·5	37·0	38·4	38·4	..	0·1	2·3	53·6	53·0	54·4	52·1	41·8	45·0	39·0	38·3	1·2	1·2	1·4	39·3	37·2	39·4	37·3	32·2	31·0	26·6	27·0	0·3	2·1	1·1
16	45·7	44·5	43·0	44·7	37·5	35·5	34·6	33·5	0·3	..	3·5	48·4	49·0	45·7	47·3	36·4	33·0	32·5	32·7	4·0	1·5	8·3	40·8	40·5	41·1	40·6	25·8	24·0	23·9	24·1	0·8	1·3	2·8
17	51·1	50·0	49·2	47·6	38·1	33·4	32·8	30·7	..	..	..	46·1	46·2	47·1	45·6	36·2	31·8	30·9	29·4	..	1·4	0·1	46·3	46·0	49·4	45·6	31·6	30·0	32·1	32·1	1·0	5·8	5·5
18	52·0	50·8	50·6	50·3	42·3	43·0	43·7	41·7	..	..	..	46·3	46·0	45·4	46·7	39·8	39·0	34·3	35·4	0·7	..	2·3	42·0	43·0	45·4	44·8	33·1	31·0	30·5	30·8	..	0·5	1·9
19	51·4	50·3	49·5	49·9	39·2	36·0	33·0	35·5	..	..	..	42·6	42·4	41·6	43·3	34·9	32·4	32·0	34·7	..	..	1·2	42·4	42·0	43·3	41·9	34·5	33·8	33·3	34·1	..	0·1	0·6
20	50·6	50·0	48·8	49·0	39·5	40·5	41·1	42·1	..	..	..	49·2	48·0	48·3	47·4	36·9	35·0	34·9	35·5	..	..	..	40·2	40·2	41·0	41·7	37·3	36·5	36·7	37·5	..	..	..
21	48·6	49·0	47·8	49·3	39·7	42·8	41·4	43·3	..	..	..	53·9	52·5	52·2	52·7	42·0	40·8	44·3	44·3	..	..	..	40·9	40·5	41·5	40·7	37·6	36·8	34·5	35·3	..	0·3	0·3
22	43·4	42·5	41·9	43·3	40·5	40·0	35·6	37·0	0·3	..	..	54·9	55·0	55·0	54·7	47·4	46·8	38·8	38·5	0·3	0·3	1·6	35·8	34·0	36·2	35·3	30·4	29·9	29·8	30·4	3·2	3·4	3·9
23	39·1	38·5	39·0	39·8	34·2	32·0	29·6	30·1	1·4	5·1	5·4	49·4	49·5	50·1	48·6	37·3	34·0	33·9	33·7	3·2	6·2	8·9	40·7	39·0	38·4	37·7	28·2	27·0	25·5	26·4	7·5	9·6	8·1
24	41·4	37·2	36·9	38·5	32·2	29·0	28·8	30·1	..	0·2	..	52·7	53·0	52·1	52·9	36·3	34·0	34·2	34·3	0·5	2·8	3·4	46·3	46·4	46·8	45·3	24·3	20·0	20·6	22·6	6·2	5·0	6·7
25	48·1	45·7	42·4	43·4	34·6	33·8	34·8	36·1	4·1	3·0	5·4	49·6	49·5	47·8	50·2	39·5	38·2	42·5	43·6	..	..	0·1	43·5	44·0	44·0	43·0	29·0	27·6	26·0	28·3	6·5	9·7	10·7
26	43·4	42·6	47·2	47·1	37·2	36·5	33·3	34·7	1·6	4·8	5·6	46·9	46·5	47·4	47·4	38·9	36·0	35·7	37·3	..	1·3	1·1	44·5	45·6	46·7	44·2	33·1	32·5	28·8	30·0	4·1	4·6	5·5
27	50·4	50·0	50·0	49·5	35·2	33·0	33·2	35·4	..	0·1	0·2	49·6	49·0	48·1	48·4	37·5	36·0	36·8	38·7	0·3	0·7	2·7	43·7	44·5	45·1	42·5	28·9	25·8	24·7	27·0	4·8	5·3	7·6
28	52·9	52·0	49·8	50·1	37·0	36·0	35·2	35·5	2·0	3·2	3·3	55·2	56·0	55·2	54·1	40·5	40·3	44·8	44·2	1·8	1·0	3·9	44·9	46·0	45·4	43·3	30·9	27·2	27·7	27·6	7·0	6·8	7·7
29	53·4	53·0	52·1	52·2	38·2	37·4	40·7	41·4	1·0	..	..	..	..	..	..	..	..	..	..	..	..	..	47·4	47·8	49·1	48·1	33·5	30·0	28·5	28·5	2·6	5·5	3·6
30	44·4	44·5	44·5	44·2	36·8	35·0	35·0	34·1	1·3	3·3	3·9	..	..	..	..	..	..	..	..	..	..	..	52·9	52·0	51·6	52·4	42·8	42·5	37·7	38·0	..	0·1	0·8
31	40·8	40·5	41·5	40·3	32·0	29·0	29·2	29·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	54·7	53·7	56·7	53·0	36·2	32·3	32·7	31·6	5·3	4·4	7·1
Means	46·7	45·7	45·4	45·7	38·3	37·3	36·3	37·2	0·6	1·1	1·5	49·1	48·8	48·5	48·4	38·7	37·4	37·2	37·9	1·0	1·7	2·6	43·6	43·5	44·1	42·9	32·0	30·4	29·3	30·1	2·9	3·8	4·6

NOTE.—At Old Street and Regent's Park the thermometers are read at 9 a.m., the maximum temperature being entered to the previous day; while at Greenwich the thermometers are read at 9 p.m., and at Kew at 10 p.m., the temperature being entered to the civil day.

Abstract of Meteorological Observations for the Month of FEBRUARY, 1883.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of						Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.															
Alnwick.....	29·904	39·9	39·6	39·7	35·3	46·7	27·0	1	54·5	25	38·4	38·0	88	87	7·0	5·6	2·59	·55	8	14	1	3	11	0	0	0	1	8	13	13	9	2	10
Cramlington	·917	40·4	39·2	39·8	34·2	46·6	26·3	1	54·6	20	38·9	38·0	88	90	6·4	5·3	1·42	·70	1	16	1	2	10	3	3	0	0	3	11	8	20	11	0
Scaleby.....	·910	40·7	41·0	40·9	36·3	47·1	28·1	19	52·5	25	39·2	39·2	88	85	7·3	6·6	1·51	·21	9	19	0	1	12	9	2	0	2	12	4	22	7	1	6
Rounton	·954	40·9	40·9	40·9	35·6	46·5	27·0	1	54·3	21	39·7	39·8	90	91	..	..	2·55	·51	1	17	1	..	..	5	4	0	1	4	8	26	8	3	2
Scarborough..	·973	41·5	41·7	41·6	37·5	46·6	33·0	1	55·3	27	39·9	40·1	87	88	6·0	5·5	2·58	·65	10	17	2	3	8	5	1	1	1	9	8	21	12	2	1
Wakefield....	29·986	41·7	41·6	41·6	37·0	47·2	28·6	1	55·8	21	39·9	39·7	86	85	7·5	6·9	2·16	·45	1	19	1	1	11	0	0	0	7	7	7	16	16	3	0
Buxton	....	39·0	38·4	38·7	34·0	44·8	27·7	1	53·1	21	38·0	37·5	92	92	7·7	7·3	4·73	·63	1	19	8	1	15	0	0	0	0	9	2	22	12	11	0
Cheadle.....	30·018	39·1	39·4	39·3	35·2	46·2	30·0	1	55·4	24	38·4	38·6	95	93	7·5	6·6	2·19	·32	1	17	1	2	12	3	2	2	3	11	9	13	8	6	2
Llandudno ..	29·961	44·1	43·8	43·9	39·5	48·7	32·2	1	54·8	21	42·0	41·8	84	84	6·8	6·7	2·79	·53	13	18	1	0	9	3	0	0	0	3	6	25	22	0	0
Leaton	30·013	40·9	41·0	41·0	35·5	48·3	26·0	1	55·0	21	40·0	39·6	93	88	6·2	5·5	2·00	·44	1	13	3	2	8	1	5	0	2	8	11	8	21	1	0
Churchstoke..	·018	42·3	40·6	41·5	35·8	48·8	30·0	1	55·1	21	41·1	39·4	90	90	6·6	5·9	5·59	1·30	1	20	7	0	6	1	3	0	3	10	13	11	12	4	0
Cheltenham...	·042	42·2	41·8	42·0	36·6	48·9	28·2	16	55·5	24	40·8	40·0	88	86	6·6	5·8	4·60	·69	10	22	0	3	8	4	0	0	0	6	17	14	9	3	7
Carmarthen ..	·006	43·2	42·7	42·9	37·6	49·0	30·3	1	53·6	14	42·0	41·4	91	89	7·8	7·3	6·20	·91	17	21	0	1	16	3	0	0	5	6	7	14	7	1	16
Babbacombe..	·078	43·9	42·8	43·3	37·7	50·6	29·2	1	57·6	27	42·5	41·5	89	89	7·1	6·1	5·68	1·21	1	18	0	1	10	7	0	1	1	5	10	18	15	5	1
Downside	·065	41·3	41·0	41·2	37·0	47·5	28·5	1	53·0	25	40·6	40·0	94	91	6·8	6·7	5·40	·75	10	19	1	3	11	6	1	3	0	8	6	24	6	7	1
Marlborough	·084	41·1	40·0	40·6	36·4	48·1	30·9	16	52·7	28	40·2	39·0	92	91	7·9	6·9	5·50	1·13	10	19	0	0	12	0	1	0	1	2	14	11	13	6	8
Strathfield T.	·095	42·7	41·6	42·2	36·1	49·6	28·7	16	55·8	28	41·6	40·4	91	90	7·5	6·3	4·42	·75	10	16	0	3	15	0	0	0	0	8	5	14	20	8	1
Norwood	·096	41·7	42·1	41·9	37·6	48·6	32·7	1	54·3	22	40·4	40·7	89	89	7·3	5·4	3·22	·66	8	16	0	4	12	4	0	0	0	1	4	16	12	19	4	0
Croydon	·101	42·0	42·5	42·2	37·8	48·6	28·7	17	53·8	22	40·5	40·8	88	86	7·8	4·8	4·32	·71	10	16	0	4	11	4	0	0	2	9	12	15	11	0	7
Southbourne	·089	43·7	43·5	43·6	39·3	49·3	28·9	1	53·8	22	42·6	42·2	91	90	6·6	5·0	3·55	·56	10	18	0	7	10	5	0	0	2	7	12	7	12	7	9
Margate	·116	41·8	42·5	42·2	38·1	47·9	33·1	24	53·6	22	40·4	41·1	89	89	6·8	5·1	2·25	·32	8	16	1	6	10	1	1	1	1	6	8	26	4	5	4
Hillington.....	·055	41·1	40·3	40·7	35·1	48·3	29·1	26	55·7	24	39·9	39·4	90	92	7·4	5·3	3·01	·77	10	15	1	3	10	1	2	2	1	7	10	22	5	7	0
Lowestoft	30·068	41·3	41·3	41·3	36·9	47·4	31·6	20	53·7	22, 24	39·9	39·9	88	88	7·0	4·7	2·17	·39	10	15	0	4	9	0	1	0	1	6	9	11	18	9	1
Dublin	29·904	42·8	44·0	43·4	38·9	48·3	29·1	19	57·9	21	40·9	41·9	85	84	6·1	6·4	3·75	1·01	1	17	5	1	9	6	0	0	1	5	11	12	20	2	5
Killarney	29·889	43·9	43·6	43·7	36·9	49·9	27·4	1	56·8	28	41·9	41·9	84	87	7·6	6·4	14·38	2·39	16	22	3	0	11	5	0	0	2	3	9	16	8	4	14
Columns	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Alnwick ..	●≡	●▲≡	..	..	..	..	●✳	●	●	●	●▲	●	●	●	..	..	◕	●	●	..	..	☋	..	..	..	☋	☋	◕
Cramlington	●≡Ш	●≡	●	.	..	●	◕✳	●≡	●	●≡	◕	●☋	●	..	≡	..	●	●	☋	..	◕	..	..	..	..	≡	●	◕
Scaleby	●	◕	●	●	..	●	●	●	◕	●	●	●	●	●	●	..	●	●	..	●	◕	..	..	..	..	..	●	..
Rounton	●≡	●	..	..	..	●	◕✳	●	●	◕	●	◕	●	●	●	..	●	●	●	..	..	..	..	..	..	..	●	●
Scarborough	●≡Ш	●	..	○	..	..	◕✳	●	●	●	●✳	●	●	●	●	..	●	●	●	..	◕	☋	..	..	..	..	●	●
Wakefield ..	●	●	●	..	●	●	◕✳	●	●	●	●	●	●	●	●	◕☋	●	..	..	●	◕	..	..	..	..	..	..	◕≡
Buxton	◕✳	●✳	●	..	..	●	●✳≡	●✳	●	●	◕✳▲	●	◕✳	●	●	✳○	◕	✳	●○	●	◕	..	..	..	..	≡	●	◕≡
Cheadle	◕✳	●	●	..	..	◕≡	◕	●	●	◕	●	●	●	●	●	..	◕	..	●	..	..	..	..	..	..	..	●	●
Llandudno ..	◕✳	●	●	..	..	●	◕	●	●	◕≡	●	●	◕▲	●	◕▲	..	●	●	●	..	◕	..	..	..	..	..	●	..
Leaton	◕✳	◕≡	..	..	..	◕	●≡	◕≡	◕	◕	●✳	●	◕✳	●	◕▲	..	..	..	..	..	..	..	..	..	..	≡	..	●
Churchstoke	●✳	●✳	●	..	..	●	●	●	●	◕✳	●✳	●	◕✳	●	●✳▲	..	●	●✳	●	..	●	◕☋	..	..	..	..	●	◕
Cheltenham	◕	●	◕	◕	..	●	●	◕	◕	◕≡	◕	◕	●	●	●☇	◕	◕	●	●☋	●	..	..	..	..	..	◕	●	●
Carmarthen	●	●	●	..	..	●	●	●	◕≡	◕	●▲	●	◕▲☋	●	●	◕	●	◕≡	◕	●	◕	◕	..	◕	..	..	●	..
Babbacombe	◕▲☇○	●	◕▲	..	..	●	◕	◕≡	●	●	●	●▲	◕▲☋	●	●	○☋	●	○	●○☋	●	◕	..	..	≡	≡	..	●≡	..
Downside ..	●≡	◕	●		..	●	●	◕≡	●	●	●	●	◕✳	●	●	☋	●	●	●☋	●	◕	●	..	..	..	≡	..	≡
Marlborough	●≡	●	●	..	..	●	●	◕≡	◕	●	●	●	●	●	●▲	..	●☋	◕≡	●☋	..	●	..	..	..	..	..	●	●
Strathfield T.	◕≡	●	◕	.	..	●	◕	●	●	●	●	●	●	●	●▲	..	●	..	◕	..	..	..	..	..	..	..	..	●
Norwood	◕≡	◕	○	◕	≡○	●	●≡	◕≡	◕≡	●	..	●	..	●	●	≡	◕≡	◕≡	≡	◕≡	..	..	..	≡	≡	≡	●	●≡
Croydon	◕≡	●	..	..	≡○	◕	●	●	●	●	..	●	●▲	●	●	≡	●	●	▲≡	◕	..	..	..	≡	≡	≡	◕≡	●≡
Southbourne	●≡	●	●	◕	..	●	●	●	●	●	●	●	●	●	●	☋	●	..	●	..	≡	..	..	..	..	..	●	●
Margate	●	●	●	..	..	..	●✳	●	◕≡	●	●	●	..	●	●☋	..	☋	●	●	●	..	..	..	..	..	≡	●	●≡
Hillington ..	●	●	◕	..	..	..	●✳	●	●	●	..	●	..	●	●	..	..	●	●	●	..	..	..	..	..	..	●	◕
Lowestoft ..	◕	◕	●	..	..	..	●	●	●	●	..	●	..	●	●☋	..	..	●	●	●	..	..	..	..	..	..	●	●
Dublin	●✳▲≡○	●✳	●✳	..	●	●	●	○	●	●▲	●✳	●▲	●	●	●✳▲☇	●	●	≡	≡○	..	●	..	..	..	≡	..	●	..
Killarney ..	●✳	●✳	●	●	●	●	●▲	●	●	●	●	●▲☇	●✳▲	●▲☇	●▲	●	●	..	●	..	●	..	◕	◕	◕	..	..	●≡

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✳ snow; ▲ hail; ≡ fog; ☇ thunderstorm; ⊤ thunder; ∠ lightning; ○ solar halo; ☋ lunar halo: Ш aurora.

TEMPERATURE OF THE SOIL AT 9 A.M.

Station.	Depth below the Surface.	January.			February.			March.		
		Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.
		°	°	°	°	°	°	°	°	°
Aspley Guise	3 ins.	39·0	47·1	34·1	39·1	44·5	33·9	36·3	44·8	33·2
Babbacombe	6 ins.	43·7	50·0	40·1	43·0	45·9	39·0	40·5	46·3	36·2
Marlborough	6 ,,	39·5	48·5	35·0	39·7	45·5	34·9	36·5	43·4	33·1
Croydon	6 ,,	40·5	48·8	35·5	40·2	45·0	36·5	36·5	43·8	33·2
Aspley Guise	6 ,,	39·3	46·7	34·8	39·5	44·3	34·8	36·9	44·9	33·8
Alnwick	1 ft.	38·6	43·5	36·0	39·9	46·0	36·0	37·6	43·5	35·0
Rounton	1 ,,	38·4	42·0	36·0	39·0	42·0	35·5	37·1	42·0	35·0
Hodsock	1 ,,	39·3	43·3	37·2	39·7	42·7	36·2	38·6	43·3	36·5
Oakamoor	1 ,,	38·5	40·3	36·0	38·0	41·3	33·4	36·6	41·0	34·1
Strelley	1 ,,	38·8	44·2	36·2	39·4	42·7	36·2	37·1	43·2	34·9
Marlborough	1 ,,	40·7	47·2	37·0	40·5	44·0	36·9	38·2	44·0	35·1
Cardiff	1 ,,	43·2	48·2	40·5	42·6	44·6	40·2	38·8	44·5	36·4
Babbacombe	1 ,,	44·7	49·7	42·0	44·0	45·4	41·4	42·1	47·0	39·1
Cullompton	1 ,,	43·0	48·4	39·3	43·0	45·0	40·0	40·8	45·8	38·0
Southampton	1 ,,	43·0	48·6	40·1	42·3	44·5	39·8	40·2	44·9	37·0
Worthing	1 ,,	42·8	47·4	39·3	42·1	44·1	39·7	40·1	44·3	37·0
St. Leonard's	1 ,,	43·2	48·2	39·6	42·8	44·6	41·2	40·8	44·6	38·0
Harestock	1 ,,	43·0	48·1	39·9	42·2	43·9	40·2	38·3	44·1	36·0
Croydon	1 ,,	41·3	47·8	37·0	40·8	43·9	38·0	37·7	43·5	34·8
Norwood	1 ,,	41·0	47·1	37·1	40·4	43·2	37·4	37·8	43·1	35·1
Isleworth	1 ,,	41·1	47·9	37·2	40·5	43·2	37·3	38·7	44·1	35·9
Regent's Park	1 ,,	41·1	48·0	37·0	40·2	43·0	36·0	38·0	44·3	35·7
Aspley Guise	1 ,,	39·8	46·1	35·9	39·7	43·8	35·5	37·5	44·5	34·8
Lowestoft	1 ,,	40·2	45·1	36·8	40·8	43·5	38·7	38·0	43·0	35·8
Marlborough	1½ ft.	41·6	46·6	39·1	41·0	42·9	38·9	39·5	43·9	37·1
Alnwick	2 ft.	43·0	44·5	42·0	43·2	45·5	41·0	42·5	46·0	41·0
Oakamoor	2 ,,	40·1	41·7	39·0	37·7	40·5	34·9	37·6	41·0	35·9
Marlborough	2 ,,	42·6	45·5	40·8	41·6	42·9	40·2	40·7	43·6	39·1
Harestock	2 ,,	43·7	46·5	41·9	42·5	43·2	41·6	40·0	43·4	38·4
Isleworth	2 ,,	42·7	46·5	40·1	41·6	43·2	40·0	40·3	43·9	38·6
Aspley Guise	2 ,,	41·5	45·2	38·9	40·9	43·2	38·6	39·8	44·0	37·7
Lowestoft	2 ,,	40·6	44·0	37·5	40·9	42·5	38·8	38·2	42·0	36·0
Cardiff	4 ft.	46·3	47·3	45·5	45·2	45·5	45·0	43·9	45·5	42·1
Harestock	4 ,,	45·1	46·0	44·0	43·6	44·0	43·3	42·6	44·0	41·2
Regent's Park	4 ,,	43·3	45·0	41·7	41·5	42·5	40·5	41·1	42·7	40·0
Aspley Guise	4 ,,	43·2	44·6	41·8	42·0	42·9	41·3	41·6	43·6	40·4
Lowestoft	4 ,,	42·9	44·3	41·5	42·2	43·0	41·5	41·0	43·0	39·1

DURATION OF BRIGHT SUNSHINE.

Station.	Total amount.			Greatest amount on one day.			No. of days on which no Sunshine was registered.		
	Jan.	Feb.	Mar.	Jan.	Feb.	Mar.	Jan.	Feb.	Mar.
	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.			
Blackpool	42	71	..	6·5	7·4	11·4	17	7	..
Hodsock	45	75	140	6·6	6·9	9·6	15	7	7
Buxton	32	64	104	7·0	7·5	10·3	19	11	6
Strelley	50	71	130	6·6	6·9	10·8	15	8	6
Llandudno	51	88	102	7·0	6·9	9·0	15	5	7
Churchstoke	39	88	117	6·1	7·9	11·0	14	3	3
Marlborough	53	92	167	6·2	8·3	10·5	14	5	2
Cullompton	44	79	178	5·4	7·2	11·2	11	6	3
Southbourne	58	90	169	7·3	9·0	9·3	14	10	2
St. Leonard's	62	86	177	6·7	9·7	10·5	12	12	4
Harestock	62	76	172	6·8	9·2	10·8	16	6	2
Croydon	42	70	107	5·7	8·0	8·8	16	8	3
Kew	46	72	142	5·6	8·9	10·7	16	9	1
Greenwich	34	49	118	5·1	6·8	9·7	15	9	2
London, Bunhill Row	18	29	90	4·1	4·0	7·5	19	9	5
Aspley Guise	56	78	138	7·3	9·0	10·0	17	10	2
Hillington	46	97	124	6·2	8·0	9·3	13	8	6

MARCH.

Date.	Max. Temp.				Min. Temp.				Sunshine.		
	Old Scale.	Fahrenheit.	Greenwich.	Mean.	Old Scale.	Fahrenheit.	Greenwich.	Mean.	Barnhill.	Greenwich.	Mean.
	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
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27											
28											
29											
30											
31											

FEBRUARY.

Date.	Max. Temp.				Min. Temp.				Sunshine.		
	Old Scale.	Fahrenheit.	Greenwich.	Mean.	Old Scale.	Fahrenheit.	Greenwich.	Mean.	Barnhill.	Greenwich.	Mean.
	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.
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2											
3											
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JANUARY.

Date.	Max. Temp.				Min. Temp.				Sunshine.		
	Old Scale.	Fahrenheit.	Greenwich.	Mean.	Old Scale.	Fahrenheit.	Greenwich.	Mean.	Barnhill.	Greenwich.	Mean.
	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.
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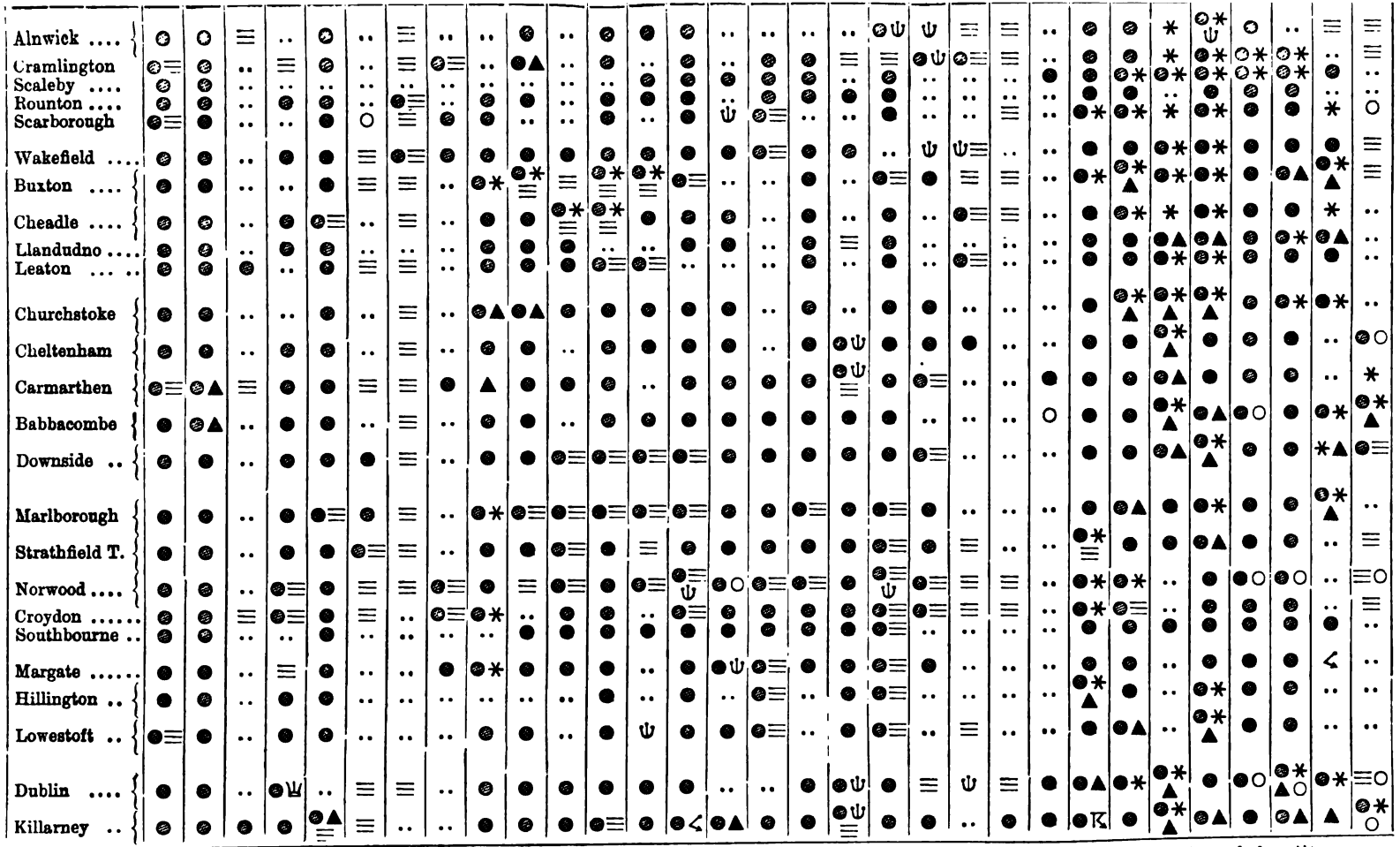
[illegible] the observations [illegible] the [illegible] day.

Abstract of Meteorological Observations for the Month of JANUARY, 1883.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of						Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.															
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.															
Alnwick	29·778	37·2	37·7	37·5	33·9	43·0	25·5	31	51·6	1, 29	35·7	36·3	87	88	6·1	6·9	2·47	·55	25	12	2	3	10	0	1	0	2	13	11	14	9	4	8
Cramlington	·780	36·2	37·2	36·7	32·4	42·6	24·8	31	51·6	18	35·0	35·8	88	87	6·1	6·8	1·90	·38	25	16	4	3	10	1	1	0	1	8	11	18	12	11	0
Scaleby	·762	37·4	38·6	38·0	34·3	43·6	24·7	31	52·0	1, 17	36·1	37·2	88	88	7·7	7·1	3·17	·53	1	16	5	3	16	8	1	5	16	7	1	17	5	2	8
Rounton	·804	36·9	38·0	37·5	33·3	42·3	23·0	31	52·8	1, 2	..	..	..	..	..	..	2·55	·60	24	19	0	..	..	5	0	0	5	7	9	23	2	5	11
Scarborough	·821	39·0	39·9	39·5	36·0	43·2	29·9	24	53·4	2	37·6	38·2	88	86	6·9	6·0	1·47	·25	24	14	5	2	12	6	0	0	10	9	5	20	18	0	0
Wakefield	·841	38·2	38·9	38·6	34·7	44·3	25·7	31	56·1	1	37·0	37·4	89	87	7·6	8·6	3·78	·70	28	23	2	0	19	5	0	1	19	6	11	13	11	1	0
Buxton	....	35·9	35·9	35·9	30·6	41·0	8·0	21	51·1	1	35·2	35·1	93	92	7·8	8·0	6·76	·82	28	18	9	1	15	9	1	1	4	14	6	23	7	6	0
Cheadle	·860	36·8	38·0	37·4	33·7	42·8	24·6	31	52·7	1	36·3	37·5	95	95	7·9	7·1	3·68	·59	27	21	6	2	15	6	0	4	15	9	9	13	6	5	1
Llandudno ..	·804	42·2	41·7	42·0	37·2	46·4	30·2	8	54·0	1, 17	40·5	40·4	86	89	6·4	6·8	2·53	·51	28	18	1	2	12	4	0	0	7	7	11	17	19	1	0
Leaton	....	38·0	39·6	38·8	34·4	44·0	26·0	31	52·0	17, 18	36·9	38·4	90	90	..	..	2·53	·37	27	19	2	..	..	..	..	..	..	..	..	..	..	..	..
Churchstoke..	·857	38·6	39·2	38·9	34·3	44·9	26·8	31	56·1	2	37·6	38·3	91	92	7·3	6·7	4·68	·61	28	20	5	0	12	1	1	1	8	16	10	8	12	2	4
Cheltenham ..	·876	40·4	41·3	40·9	36·0	46·2	27·5	7	56·0	1	38·9	39·6	88	86	7·0	7·0	2·67	·50	29	22	1	1	12	5	0	0	7	13	11	16	5	0	10
Carmarthen ..	·838	41·3	41·4	41·4	36·0	46·8	28·1	7	52·0	1	40·1	40·3	90	91	7·1	6·7	6·04	·86	28	23	1	1	15	3	0	0	12	9	7	12	7	0	15
Babbacombe..	·890	43·8	43·3	43·6	39·3	49·0	31·8	7	55·9	18	42·3	42·0	88	90	7·8	6·7	3·86	·51	25	22	3	1	13	11	1	2	10	8	6	18	13	2	2
Downside	·887	39·8	40·4	40·1	35·6	44·9	28·1	31	53·4	1	39·1	39·6	94	93	7·9	7·8	4·56	·63	24	25	2	0	18	8	0	16	3	8	3	25	6	1	0
Marlborough	·906	38·9	39·7	39·3	36·1	44·6	28·3	31	53·2	1	38·2	38·9	94	93	7·6	6·8	3·79	·39	24	24	3	3	15	0	0	1	14	8	10	7	10	4	8
Strathfield T.	·922	40·2	40·2	40·2	35·5	46·2	25·8	31	54·6	1	39·0	39·0	90	90	6·8	7·2	2·39	·47	29	22	1	2	15	0	1	5	6	14	6	14	12	3	1
Norwood	·924	40·3	41·0	40·7	37·1	45·6	28·1	31	54·7	1	39·1	39·8	90	90	6·7	6·6	1·97	·39	15	21	2	3	13	7	2	6	10	7	9	9	11	3	5
Croydon	·926	40·1	41·0	40·6	37·1	45·8	26·7	23	55·1	2	38·6	39·6	88	88	6·9	6·6	2·04	·26	15, 24	20	2	3	13	4	0	5	6	7	6	16	8	0	14
Southbourne	·904	42·4	42·3	42·4	38·9	47·1	31·3	9	52·7	2	41·2	41·2	90	91	6·8	6·7	2·19	·29	24	20	0	4	15	4	2	9	4	11	9	9	11	4	3
Margate	·929	40·8	41·8	41·3	37·5	45·6	30·2	24	55·6	1	39·5	40·5	89	89	6·4	7·5	1·44	·24	10, 29	20	1	3	12	3	1	3	8	8	5	20	4	2	11
Hillington ..	·894	38·1	38·2	38·2	32·9	43·8	25·2	31	54·5	2	37·1	37·3	91	92	8·0	7·3	1·84	·47	24	14	2	3	19	3	3	2	9	19	4	19	3	3	0
Lowestoft	·903	39·9	40·5	40·2	36·1	44·3	29·6	31	54·4	1	38·3	38·9	87	87	6·2	7·1	1·74	·29	25	17	1	1	12	1	2	3	6	15	5	14	12	4	1
Dublin	·745	42·3	43·0	42·7	38·7	47·7	30·4	7	55·7	1	40·5	41·0	86	84	6·2	5·7	2·68	·68	24	20	4	1	7	6	0	0	5	14	11	14	17	0	1
Killarney	29·712	45·5	44·4	45·0	39·0	50·0	28·4	31	55·3	1	43·5	42·5	85	85	8·2	6·0	11·83	2·63	28	26	2	0	14	11	1	0	8	7	6	18	15	3	4
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33



EXPLANATION OF THE SYMBOLS.—● indicates rain; ✱ snow; ▲ hail ≡ fog; ⋉ thunderstorm; ⊤ thunder; ∠ lightning; ○ solar halo; ψ lunar halo; Ψ aurora.

Abstract of Meteorological Observations for the Month of FEBRUARY, 1888.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature. 9 a.m.	9 p.m.	Mean.	Means of Min.	Means of Max.	Absolute Min.	Date.	Absolute Max.	Date.	Wet Bulb Therm. 9 a.m.	9 p.m.	Relative Humid. 9 a.m.	9 p.m.	Amount of Cloud. 9 a.m.	9 p.m.	Rainfall. Total Fall.	Greatest Fall in 24 hours. Amnt.	Date.	Weather. No. of days of Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	Wind. No. of Observations of N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.														
Alnwick.....	29·904	39·9	39·6	39·7	35·3	46·7	27·0	1	54·5	25	38·4	38·0	88	87	7·0	5·6	2·59	·55	8	14	1	3	11	0	0	0	1	8	13	13	9	2	10
Cramlington	·917	40·4	39·2	39·8	34·2	46·6	26·3	1	54·6	20	38·9	38·0	88	90	6·4	5·3	1·42	·70	1	16	1	2	10	3	3	0	0	3	11	8	20	11	0
Scaleby.....	·910	40·7	41·0	40·9	36·3	47·1	28·1	19	52·5	25	39·2	39·2	88	85	7·3	6·6	1·51	·21	9	19	0	1	12	9	2	0	2	12	4	22	7	1	6
Rounton	·954	40·9	40·9	40·9	35·6	46·5	27·0	1	54·3	21	39·7	39·8	90	91	..	..	2·55	·51	1	17	1	..	..	5	4	0	1	4	8	26	8	3	2
Scarborough..	·973	41·5	41·7	41·6	37·5	46·6	33·0	1	55·3	27	39·9	40·1	87	88	6·0	5·5	2·58	·65	10	17	2	3	8	5	1	1	1	9	8	21	12	2	1
Wakefield....	29·986	41·7	41·6	41·6	37·0	47·2	28·6	1	55·8	21	39·9	39·7	86	85	7·5	6·9	2·16	·45	1	19	1	1	11	0	0	0	7	7	7	16	16	3	0
Buxton	....	39·0	38·4	38·7	34·0	44·8	27·7	1	53·1	21	38·0	37·5	92	92	7·7	7·3	4·73	·63	1	19	8	1	15	0	0	0	0	9	2	22	12	11	0
Cheadle.....	30·018	39·1	39·4	39·3	35·2	46·2	30·0	1	55·4	24	38·4	38·6	95	93	7·5	6·6	2·19	·32	1	17	1	2	12	3	2	2	3	11	9	13	8	6	2
Llandudno ..	29·961	44·1	43·8	43·9	39·5	48·7	32·2	1	54·8	21	42·0	41·8	84	84	6·8	6·7	2·79	·53	13	18	1	0	9	3	0	0	0	3	6	25	22	0	0
Leaton	30·013	40·9	41·0	41·0	35·5	48·3	26·0	1	55·0	21	40·0	39·6	93	88	6·2	5·5	2·00	·44	1	13	3	2	8	1	5	0	2	8	11	8	21	1	0
Churchstoke..	·018	42·3	40·6	41·5	35·8	48·8	30·0	1	55·1	21	41·1	39·4	90	90	6·6	5·9	5·59	1·30	1	20	7	0	6	1	3	0	3	10	13	11	12	4	0
Cheltenham...	·042	42·2	41·8	42·0	36·6	48·9	28·2	16	55·5	24	40·8	40·0	88	86	6·6	5·8	4·60	·69	10	22	0	3	8	4	0	0	0	6	17	14	9	3	7
Carmarthen ..	·006	43·2	42·7	42·9	37·6	49·0	30·3	1	53·6	14	42·0	41·4	91	89	7·8	7·3	6·20	·91	17	21	0	1	16	3	0	0	5	6	7	14	7	1	16
Babbacombe..	·078	43·9	42·8	43·3	37·7	50·6	29·2	1	57·6	27	42·5	41·5	89	89	7·1	6·1	5·68	1·21	1	18	0	1	10	7	0	1	1	5	10	18	15	5	1
Downside	·065	41·3	41·0	41·2	37·0	47·5	28·5	1	53·0	25	40·6	40·0	94	91	6·8	6·7	5·40	·75	10	19	1	3	11	6	1	3	0	8	6	24	6	7	1
Marlborough	·084	41·1	40·0	40·6	36·4	48·1	30·9	16	52·7	28	40·2	39·0	92	91	7·9	6·9	5·50	1·13	10	19	0	0	12	0	1	0	1	2	14	11	13	6	8
Strathfield T.	·095	42·7	41·6	42·2	36·1	49·6	28·7	16	55·8	28	41·6	40·4	91	90	7·5	6·3	4·42	·75	10	16	0	3	15	0	0	0	0	8	5	14	20	8	1
Norwood	·096	41·7	42·1	41·9	37·6	48·6	32·7	1	54·3	22	40·4	40·7	89	89	7·3	5·4	3·22	·66	8	16	0	4	12	4	0	0	1	4	16	12	19	4	0
Croydon	·101	42·0	42·5	42·2	37·8	48·6	28·7	17	53·8	22	40·5	40·8	88	86	7·8	4·8	4·32	·71	10	16	0	4	11	4	0	0	2	9	12	15	11	0	7
Southbourne	·089	43·7	43·5	43·6	39·3	49·3	28·9	1	53·8	22	42·6	42·2	91	90	6·6	5·0	3·55	·56	10	18	0	7	10	5	0	0	2	7	12	7	12	7	9
Margate	·116	41·8	42·5	42·2	38·1	47·9	33·1	24	53·6	22	40·4	41·1	89	89	6·8	5·1	2·25	·32	8	16	1	6	10	1	1	1	1	6	8	26	4	5	4
Hillington.....	·055	41·1	40·3	40·7	35·1	48·3	29·1	26	55·7	24	39·9	39·4	90	92	7·4	5·3	3·01	·77	10	15	1	3	10	1	2	2	1	7	10	22	5	7	0
Lowestoft	30·068	41·3	41·3	41·3	36·9	47·4	31·6	20	53·7	22, 24	39·9	39·9	88	88	7·0	4·7	2·17	·39	10	15	0	4	9	0	1	0	1	6	9	11	18	9	1
Dublin	29·904	42·8	44·0	43·4	38·9	48·3	29·1	19	57·9	21	40·9	41·9	85	84	6·1	6·4	3·75	1·01	1	17	5	1	9	6	0	0	1	5	11	12	20	2	5
Killarney	29·889	43·9	43·6	43·7	36·9	49·9	27·4	1	56·8	28	41·9	41·9	84	87	7·6	6·4	14·38	2·39	16	22	3	0	11	5	0	0	2	3	9	16	8	4	14
Columns	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Alnwick ..	●≡	●▲≡	..	..	..	..	●✳	◍	●	●	◍▲	◍	●	◍	..	..	◍	◍	●	..	..	Ψ	..	..	..	Ψ	Ψ	◍
Cramlington	◍≡Ш	●≡	●	.	..	●	●✳	●≡	●	●≡	●	●Ψ	●	..	≡	..	●	◍	Ψ	..	◍	..	..	..	..	≡	◍	●
Scaleby	●	●	●	●	..	●	●	●	●	●	●	●	◍	●	●	..	●	●	..	●	◍	..	..	..	..	..	●	..
Rounton	●≡	◍	..	..	..	●	◍✳	◍	●	●	●	●	●	◍	●	..	◍	●	●	..	..	..	..	..	..	..	●	◍
Scarborough	●≡Ш	●	..	○	..	..	●✳	●	●	◍	●✳	●	●	●	●	..	●	●	●	..	◍	Ψ	..	..	..	..	◍	●
Wakefield ..	●	◍	●	..	●	●	●✳	●	●	●	●	●	●	●	●	●Ψ	◍	..	..	●	◍	..	..	..	..	..	..	◍
Buxton	●✳	●✳	●	..	..	●	●✳≡	◍✳	●	◍	●✳▲	●	◍✳	●	◍	✳○	◍	✳	●○	●	◍	..	..	..	..	≡	●	◍≡
Cheadle	◍✳	◍	●	..	..	●≡	●	◍	●	◍	●	◍	◍	●	●	..	●	..	◍	..	..	..	..	..	..	..	●	●
Llandudno ..	◍✳	◍	●	..	..	●	●	◍	●	◍≡	◍	◍	◍▲	●	●▲	..	●	●	●	..	◍	..	..	..	..	..	●	..
Leaton	◍✳	◍≡	..	..	..	◍	◍≡	◍≡	◍	◍	◍✳	●	●✳	●	●▲	..	..	..	..	..	..	..	..	..	..	≡	..	●
Churchstoke	●✳	●✳	●	..	..	●	◍	◍	●	◍✳	●✳	●	◍✳	●	◍✳▲	..	●	◍✳	●	..	◍	◍Ψ	..	..	..	..	●	◍
Cheltenham	◍	◍	◍	◍	..	◍	◍	◍	●	◍≡	◍	◍	◍	◍	●K	●	◍	◍	●Ψ	◍	..	..	..	..	..	◍	●	●
Carmarthen	◍	●	◍	..	..	●	◍	◍	◍≡	◍	●▲	●	◍▲Ψ	●	◍	●	◍	◍≡	◍	◍	◍	..	●	..	..	..	●	..
Babbacombe	◍▲K○	◍	◍▲	..	..	◍	◍	◍≡	●	◍	●	◍▲	◍▲Ψ	●	●	○Ψ	●	○	●○Ψ	◍	◍	..	..	≡	≡	..	◍≡	..
Downside ..	●≡	◍	◍		..	●	◍	◍≡	●	●	●	●	◍✳	●	●	Ψ	●	●	◍Ψ	●	◍	●	..	..	..	≡	..	≡
Marlborough	●≡	●	●	..	..	●	◍	●≡	●	●	●	●	●	●	●▲	..	◍Ψ	◍≡	●Ψ	..	●	..	..	..	..	..	●	◍
Strathfield T.	●≡	●	◍	..	..	●	◍	●	◍	◍	◍	◍	●	●	●▲	..	◍	..	◍	..	..	..	..	..	..	..	..	◍
Norwood	◍≡	●	○	◍	≡○	◍	●≡	◍≡	◍≡	●	..	●	..	●	●	≡	●≡	◍≡	≡	◍≡	..	..	..	≡	≡	≡	◍	◍≡
Croydon	◍≡	●	..	..	≡○	◍	●	●	●	◍	..	●	●▲	●	●	≡	◍	●	▲≡	●	..	..	..	≡	≡	≡	◍≡	◍≡
Southbourne	●≡	●	◍	●	..	●	◍	●	◍	◍	●	◍	◍	●	●	Ψ	●	..	●	..	≡	..	..	..	..	..	●	◍
Margate	◍	●	◍	..	..	..	◍✳	●	●≡	●	●	●	..	●	●Ψ	..	Ψ	●	●	◍	..	..	..	..	..	≡	●	◍≡
Hillington ..	◍	●	●	..	..	..	●✳	◍	●	●	..	●	..	●	●	..	..	◍	●	◍	..	..	..	..	..	..	●	◍
Lowestoft ..	●	●	●	..	..	..	●	◍	●	●	..	●	..	●	●Ψ	..	..	●	●	●	..	..	..	..	..	..	●	●
Dublin	●✳▲≡○	●✳	●✳	..	●	●	◍	○	●	●▲	●✳	◍▲	●	●	●✳▲K	●	●	≡	≡○	..	●	..	..	..	≡	..	●	..
Killarney ..	●✳	●✳	●	●	●	●	●▲	◍	●	●	●	●▲K	●✳▲	●▲K	●▲	●	●	..	●	..	●	..	◍	◍	..	..	..	●≡

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✳ snow; ▲ hail; ≡ fog; K thunderstorm; T thunder; ⚡ lightning; ○ solar halo; Ψ lunar halo: Ш aurora.

Abstract of Meteorological Observations for the Month of MARCH, 1883.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature. 9 a.m.	9 p.m.	Mean.	Means of Min.	Means of Max.	Absolute Min. and Max. Min.	Date.	Max.	Date.	Wet Bulb Therm. 9 a.m.	9 p.m.	Relative Humid. 9 a.m.	9 p.m.	Amount of Cloud. 9 a.m.	9 p.m.	Rainfall. Total Fall.	Greatest Fall in 24 hours. Amnt.	Date.	Weather. No. of days of Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	Wind. No. of Observations of N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
	In.	°	°	°	°	°	°		°				o/o	o/o			In.	In.															
Alnwick	29·945	34·8	33·5	34·2	29·5	43·1	23·6	10, 17	56·3	2	33·2	31·8	85	82	6·5	4·5	2·11	·57	19	14	18	6	11	0	5	0	9	2	5	3	7	19	12
Cramlington..	·945	35·5	32·6	34·1	27·7	42·2	21·0	17	59·4	4	33·5	.....	82	..	5·8	4·3	1·50	·39	19	19	16	6	6	4	16	7	7	6	5	6	5	10	0
Scaleby	·959	34·3	32·9	33·6	27·8	43·7	12·9	9	55·2	1	33·1	32·0	88	90	6·0	4·1	1·76	·50	18	9	3	9	7	4	12	6	12	5	1	8	5	2	11
Rounton	·948	33·3	32·1	32·7	26·8	40·6	12·1	15	56·8	4	....	...	..	..	..	..	1·77	·37	7	13	14	...	...	4	16	4	7	3	3	10	1	10	8
Scarborough..	·939	36·9	35·2	36·0	31·1	41·9	23·0	10	51·8	5	34·7	33·6	81	85	5·2	4·6	1·78	·27	19	18	16	5	5	6	9	4	10	2	4	8	9	15	1
Wakefield	·958	35·0	33·2	34·1	28·4	42·1	14·1	10	56·0	4	33·3	31·8	84	85	6·5	6·1	1·02	·42	19	13	9	1	8	1	16	3	8	5	3	3	12	12	0
Buxton	....	34·0	29·5	31·8	23·2	39·6	5·0	10	51·1	4, 5	32·8	29·0	88	91	6·6	4·2	1·82	·70	19	10	14	6	8	0	0	12	8	6	1	4	4	25	2
Cheadle	·964	33·3	32·3	32·8	27·8	41·0	20·5	10	54·0	4	31·7	31·4	83	89	5·7	4·3	1·19	·48	19	13	16	7	8	4	11	3	13	6	2	1	5	19	2
Llandudno ..	·984	38·8	37·5	38·2	32·7	43·1	26·0	24	52·8	3	36·1	35·2	78	80	7·3	5·6	1·73	·45	29	13	14	3	14	4	10	10	12	3	1	7	14	5	0
Leaton	·983	34·6	32·3	33·4	26·5	42·0	13·6	10	54·0	30	33·1	31·3	86	87	5·0	3·4	1·04	·33	19	12	11	12	9	..	17	4	11	3	3	2	12	6	4
Churchstoke..	·991	35·0	32·5	33·7	26·5	41·8	11·2	10	54·4	4	33·6	31·3	86	86	6·2	4·4	1·35	·44	19	15	15	2	5	1	8	11	5	5	4	3	14	10	2
Cheltenham ..	·960	35·4	33·7	34·5	26·6	43·4	16·5	24	57·8	4	33·2	32·1	80	83	5·5	4·6	1·31	·57	19	12	11	9	8	5	14	8	6	1	4	3	12	4	10
Carmarthen ..	·962	38·4	35·8	37·1	29·5	45·6	19·0	10	58·3	1	35·8	34·1	79	84	5·2	4·4	1·52	·86	29	14	9	7	4	0	12	4	9	1	1	2	4	5	24
Babbacombe..	·962	39·6	36·4	38·0	31·7	45·8	23·3	16, 24	55·9	30	36·4	34·1	75	80	5·2	3·7	1·37	·62	29	10	11	11	8	4	16	13	10	2	1	5	8	7	0
Downside	·953	35·4	34·2	34·8	28·5	42·7	18·1	10	53·8	5	33·6	32·8	83	86	4·7	4·0	1·32	·40	29	12	13	10	8	5	4	27	2	1	2	11	7	8	0
Marlborough	·964	35·2	33·2	34·2	27·6	43·1	18·5	24	55·2	5	33·0	31·7	80	84	4·7	4·5	1·29	·54	19	10	16	12	9	0	15	4	16	0	3	3	5	5	11
Strathfield T.	·956	36·0	34·0	35·0	28·2	45·3	13·8	24	56·2	5	34·2	32·8	83	88	4·5	3·9	·77	·38	19	5	9	9	4	0	13	16	10	4	1	4	5	7	2
Norwood	·944	35·4	35·0	35·2	30·1	43·2	19·9	24	53·6	31	33·1	33·1	79	82	5·3	5·2	·78	·36	19	12	14	6	7	3	16	6	11	0	4	3	9	9	4
Croydon	·945	35·1	34·7	34·9	30·1	42·7	20·9	24	55·3	31	32·9	32·7	79	81	6·5	4·9	·97	·40	19	11	15	5	9	2	8	11	5	1	3	5	9	8	12
Southbourne	·948	37·2	35·7	36·4	30·7	45·1	23·0	10	56·2	5	34·5	33·5	77	80	3·5	2·7	·72	·32	19	8	0	14	3	1	22	15	0	1	1	3	4	13	3
Margate	·922	36·5	36·4	36·4	32·2	42·0	24·2	24	53·4	31	34·3	34·5	81	83	6·3	5·5	1·12	·25	7	17	11	4	9	0	9	9	16	0	4	7	3	7	7
Hillington....	·931	36·3	33·3	34·8	28·2	42·6	13·6	10	53·7	31	34·0	32·3	80	89	6·7	6·6	1·80	·30	11	19	15	3	13	1	9	18	10	3	2	7	3	10	0
Lowestoft ...	29·906	35·7	35·2	35·5	30·9	41·3	22·6	24	54·0	31	34·1	33·7	86	86	7·1	5·8	1·46	·27	11	18	15	4	10	1	6	9	19	1	3	1	10	13	0
Dublin	30·004	37·9	38·2	38·0	33·7	44·3	25·4	24	51·5	1	35·3	35·8	79	80	5·6	5·2	1·06	·46	20	12	10	6	7	3	12	5	8	6	2	1	12	12	4
Killarney	30·025	39·6	38·2	38·9	32·1	46·2	18·8	24	54·7	1	37·4	36·8	82	88	6·0	5·6	3·28	1·72	29	16	7	4	7	2	8	7	8	5	2	2	4	7	19
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Alnwick	..	≡	≡	≡	..	✱▲	✱▲	✱▲	..	✱▲	●✱ ▲	✱	..	✱▲	✱ψ	✱	✱▲	✱▲	●✱	..	✱	✱	..	✱▲	●✱	✱▲	✱	..	◍	◍	▲
Cramlington	..	≡	≡	..	●	✱▲	✱	✱▲	..	◍	●✱	✱	..	✱	✱	▲✱	✱	●	●✱	..	✱	✱	..	●✱	◍✱ ▲	▲✱	✱	..	●	●	..
Scaleby	..	..	..	..	..	..	●✱	●✱	..	..	..	..	●	..	..	..	●✱	●	◍	●	..	..	..	..	..	..	..	..	◍	◍	..
Rounton	..	≡	..	..	..	✱	✱	✱	✱	..	✱	✱	●	✱	✱	✱	..	◍	●✱	..	✱	✱	..	..	..	✱	✱	..	●	◍	..
Scarborough	..	..	..	..	●	✱	✱	✱	✱▲	..	✱▲	✱	●ψ	✱	✱	●✱	✱	..	●	..	●✱	✱	..	●✱ ▲	✱	✱	✱	..	◍	●	..
Wakefield	..	..	..	..	●	●✱	●✱	●✱	..	..	✱	..	..	..	✱	●✱	..	●✱	●✱	..	..	..	..	◍	●✱	..	●	..	◍	..	..
Buxton	..	≡	..	..	..	✱	✱	✱	✱	..	..	..	..	✱	✱	◍	✱	✱	✱	✱	..	✱	..	●✱ ▲	✱	✱	..	..	●	●	..
Cheadle	..	..	..	..	..	✱	✱	✱	✱	✱	✱	..	..	✱≡	..	●✱ ▲	✱	..	●✱ ≡	●✱	..	✱	..	◍✱	◍✱ ▲	✱	✱	..	●	●	..
Llandudno ..	≡	≡	..	..	..	..	✱	✱	✱	✱	✱	..	..	✱≡	✱	✱▲	✱▲	✱	●≡	◍✱ ≡	..	..	..	..	◍≺	✱▲	✱▲	✱	●	◍	..
Leaton	..	..	..	..	..	✱	✱	✱	..	..	✱	..	..	●	✱	✱	✱	✱	✱≡	✱	..	..	..	..	●	✱	..	..	◍	●	..
Churchstoke	◍	..	..	..	..	✱	✱	✱	✱	..	✱	..	..	..	✱	●✱	◍✱ ▲	✱	✱	✱	..	..	..	..	◍✱	✱	✱	✱	●	◍	..
Cheltenham	..	..	..	..	..	..	..	✱▲	✱	..	✱	✱	●	≡	✱	..	◍✱ ▲	✱	●	✱	..	✱	..	..	..	✱	..	✱▲	●	●	..
Carmarthen ..	..	..	..	..	..	..	..	✱	..	..	✱	..	●	..	✱	●✱	◍✱	✱	●ψ	◍	..	..	..	..	✱	✱▲	✱	●	●	◍	..
Babbacombe	..	..	..	..	..	..	✱	✱	✱	✱	..	✱	●	◍○	✱	✱○	◍✱ ▲	✱	○ψ	●≡	◍▲	..	..	..	●	✱	✱	..	◍	◍	●
Downside ..	..	..	..	..	..	✱	..	✱	..	≡	✱	..	●✱	..	✱	✱	✱▲	✱	●≡	◍✱ ≡	◍✱	..	..	..	●	◍✱	✱	✱	◍	●	..
Marlborough ..	..	..	..	..	≡	..	✱	✱	✱	✱	✱	✱	✱	✱≡	✱	✱	✱	..	●≡	✱≡	..	✱	..	..	●	✱	✱	✱	●	●	≡
Strathfield T.	..	≡	..	≡	≡	✱	✱	..	..	✱	✱	..	..	..	..	..	●✱ ▲	..	◍✱ ≡	≡	..	..	..	..	●	✱	✱	✱	..	◍	≡
Norwood ..	≡	..	≡	≡	●≡	✱	✱	✱Ш	✱≡	✱≡ ○	✱≡	✱≡	✱○	✱	✱≡	○	●	..	●≡	..	..	✱	..	●≡	≡	✱≡	✱≡ ○	✱≡	◍○	●	≡○
Croydon	..	..	..	≡	◍≡	▲✱	✱	✱	✱	✱	✱≡	✱≡	✱	✱≡	✱	✱	◍▲ ≡	..	●≡	..	..	✱	..	●✱ ≡	..	✱≡	✱≡	≡	◍	◍	≡○
Southbourne ..	..	..	..	..	..	..	..	..	..	..	..	..	◍	..	..	..	◍	..	◍	◍	●	..	..	..	..	●	..	..	◍	◍	..
Margate	..	..	..	..	..	✱▲	✱▲	✱▲	✱	✱▲	✱	✱	●	●	..	..	●	◍✱	●	..	..	..	..	✱	..	✱	✱	..	◍	◍	..
Hillington ..	..	..	..	..	◍≡	✱	✱▲	✱▲	✱	✱	✱▲	✱▲	..	..	✱▲	✱▲	✱	●	●	..	..	✱	..	◍✱	◍✱ ▲	◍✱	✱	..	◍	◍	..
Lowestoft	..	..	..	..	●	✱▲	✱▲	✱▲	✱▲	✱▲	✱▲	✱	◍	..	✱	✱	✱	●✱	◍	..	..	..	..	✱	◍✱ ▲	✱	✱	..	..	◍	..
Dublin	◍	..	..	≡	..	..	●✱ ▲	✱▲	..	✱≡	..	▲	..	◍✱ ▲≡	✱▲ T	◍✱ ▲○	●✱ ▲	✱▲	..	●≡	..	✱	..	..	●	◍✱ ▲	▲≺	▲○	◍	◍▲	..
Killarney ..	≡	≡	..	..	..	..	◍	✱	..	✱	◍	◍	●	◍	..	◍✱	◍▲	✱▲	..	ψ	●	..	..	..	●	◍✱ ▲	◍✱	●	◍	◍▲	✱▲

EXPLANATION OF THE SYMBOLS.—◍ indicates rain; ✱ snow; ▲ hail; ≡ fog; ⊼ thunderstorm; T thunder; ≺ lightning; ○ solar halo; ψ lunar halo; Ш aurora.

TEMPERATURE OF THE SOIL AT 9 A.M.

Station.	Depth below the Surface.	January.			February.			March.		
		Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.
		°	°	°	°	°	°	°	°	°
Aspley Guise	3 ins.	39·0	47·1	34·1	39·1	44·5	33·9	36·3	44·8	33·2
Babbacombe	6 ins.	43·7	50·0	40·1	43·0	45·9	39·0	40·5	46·3	36·2
Marlborough	6 ,,	39·5	48·5	35·0	39·7	45·5	34·9	36·5	43·4	33·1
Croydon	6 ,,	40·5	48·8	35·5	40·2	45·0	36·5	36·5	43·8	33·2
Aspley Guise	6 ,,	39·3	46·7	34·8	39·5	44·3	34·8	36·9	44·9	33·8
Alnwick	1 ft.	38·6	43·5	36·0	39·9	46·0	36·0	37·6	43·5	35·0
Rounton	1 ,,	38·4	42·0	36·0	39·0	42·0	35·5	37·1	42·0	35·0
Hodsock	1 ,,	39·3	43·3	37·2	39·7	42·7	36·2	38·6	43·3	36·5
Oakamoor	1 ,,	38·5	40·3	36·0	38·0	41·3	33·4	36·6	41·0	34·1
Strelley	1 ,,	38·8	44·2	36·2	39·4	42·7	36·2	37·1	43·2	34·9
Marlborough	1 ,,	40·7	47·2	37·0	40·5	44·0	36·9	38·2	44·0	35·1
Cardiff	1 ,,	43·2	48·2	40·5	42·6	44·6	40·2	38·8	44·5	36·4
Babbacombe	1 ,,	44·7	49·7	42·0	44·0	45·4	41·4	42·1	47·0	39·1
Cullompton	1 ,,	43·0	48·4	39·3	43·0	45·0	40·0	40·8	45·8	38·0
Southampton	1 ,,	43·0	48·6	40·1	42·3	44·5	39·8	40·2	44·9	37·0
Worthing	1 ,,	42·8	47·4	39·3	42·1	44·1	39·7	40·1	44·3	37·0
St. Leonard's	1 ,,	43·2	48·2	39·6	42·8	44·6	41·2	40·8	44·6	38·0
Harestock	1 ,,	43·0	48·1	39·9	42·2	43·9	40·2	38·3	44·1	36·0
Croydon	1 ,,	41·3	47·8	37·0	40·8	43·9	38·0	37·7	43·5	34·8
Norwood	1 ,,	41·0	47·1	37·1	40·4	43·2	37·4	37·8	43·1	35·1
Isleworth	1 ,,	41·1	47·9	37·2	40·5	43·2	37·3	38·7	44·1	35·9
Regent's Park	1 ,,	41·1	48·0	37·0	40·2	43·0	36·0	38·0	44·3	35·7
Aspley Guise	1 ,,	39·8	46·1	35·9	39·7	43·8	35·5	37·5	44·5	34·8
Lowestoft	1 ,,	40·2	45·1	36·8	40·8	43·5	38·7	39·0	43·0	35·8
Marlborough	1½ ft.	41·6	46·6	39·1	41·0	42·9	38·9	39·5	43·9	37·1
Alnwick	2 ft.	43·0	44·5	42·0	43·2	45·5	41·0	42·5	46·0	41·0
Oakamoor	2 ,,	40·1	41·7	39·0	37·7	40·5	34·9	37·6	41·0	35·9
Marlborough	2 ,,	42·6	45·5	40·8	41·6	42·9	40·2	40·7	43·6	39·1
Harestock	2 ,,	43·7	46·5	41·9	42·5	43·2	41·6	40·0	43·4	38·4
Isleworth	2 ,,	42·7	46·5	40·1	41·6	43·2	40·0	40·3	43·9	38·6
Aspley Guise	2 ,,	41·5	45·2	38·9	40·9	43·2	38·6	39·8	44·0	37·7
Lowestoft	2 ,,	40·6	44·0	37·5	40·9	42·5	38·8	38·2	42·0	36·0
Cardiff	4 ft.	46·3	47·3	45·5	45·2	45·5	45·0	43·9	45·5	42·1
Harestock	4 ,,	45·1	46·0	44·0	43·6	44·0	43·3	42·6	44·0	41·2
Regent's Park	4 ,,	43·3	45·0	41·7	41·5	42·5	40·5	41·1	42·7	40·0
Aspley Guise	4 ,,	43·2	44·6	41·8	42·0	42·9	41·3	41·6	43·6	40·4
Lowestoft	4 ,,	42·9	44·3	41·5	42·2	43·0	41·5	41·0	43·0	39·1

DURATION OF BRIGHT SUNSHINE.

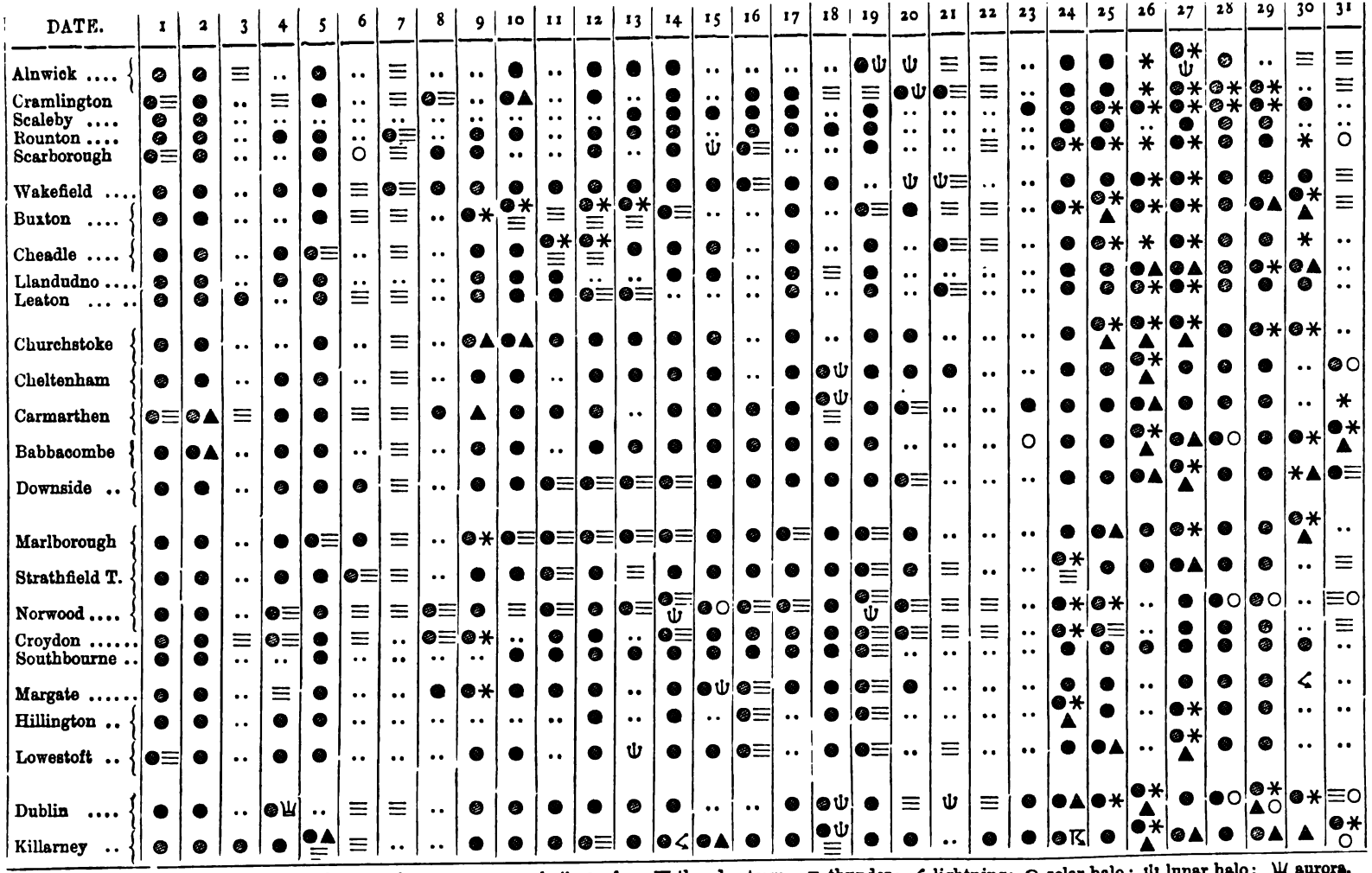
Station.	Total amount.			Greatest amount on one day.			No. of days on which no Sunshine was registered.		
	Jan.	Feb.	Mar.	Jan.	Feb.	Mar.	Jan.	Feb.	Mar.
	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.			
Blackpool	42	71	..	6·5	7·4	11·4	17	7	..
Hodsock	45	75	140	6·6	6·9	9·6	15	7	7
Buxton	32	64	104	7·0	7·5	10·3	19	11	6
Strelley	50	71	130	6·6	6·9	10·8	15	8	6
Llandudno	51	88	102	7·0	6·9	9·0	15	5	7
Churchstoke	39	88	117	6·1	7·9	11·0	14	3	3
Marlborough	53	92	167	6·2	8·3	10·5	14	5	2
Cullompton	44	79	178	5·4	7·2	11·2	11	6	3
Southbourne	58	90	169	7·3	9·0	9·3	14	10	2
St. Leonard's	62	86	177	6·7	9·7	10·5	12	12	4
Harestock	62	76	172	6·8	9·2	10·8	16	6	2
Croydon	42	70	107	5·7	8·0	8·8	16	8	3
Kew	46	72	142	5·6	8·9	10·7	16	9	1
Greenwich	34	49	118	5·1	6·8	9·7	15	9	2
London, Bunhill Row	18	29	90	4·1	4·0	7·5	19	9	5
Aspley Guise	56	78	138	7·3	9·0	10·0	17	10	2
Hillington	46	97	124	6·2	8·0	9·3	13	8	6

Date.	JANUARY.											FEBRUARY.											MARCH.										
	Max. Temp.				Min. Temp.				Sunshine.			Max. Temp.				Min. Temp.				Sunshine.			Max. Temp.				Min. Temp.				Sunshine.		
	Old Street.	Regent's Park.	Greenwich.	Kew.	Old Street	Regent's Park.	Greenwich.	Kew.	Bunhill Row.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Bunhill Row.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Bunhill Row.	Greenwich.	Kew.
	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.
1	55·6	55·0	55·0	54·8	50·2	51·2	51·7	52·0	1·7	..	..	47·4	46·0	41·8	41·6	33·1	32·0	32·0	32·2	..	0·8	..	48·3	49·6	48·6	48·4	46·5	44·5	41·0	42·9		..	0·5
2	50·9	50·8	51·8	52·4	47·6	45·0	43·2	44·6	..	3·5	4·9	49·6	48·3	48·4	48·5	35·0	32·8	36·4	38·2	1·2	0·1	..	46·3	45·0	45·4	44·1	39·9	38·8	35·5	38·1	1·5	1·1	0·4
3	47·7	46·0	47·8	48·8	43·2	44·0	42·0	42·6	..	..	..	46·0	44·5	45·5	45·5	38·1	37·0	36·5	37·6	3·1	4·4	6·2	49·2	47·5	49·1	47·6	34·0	33·0	30·8	29·3	6·2	8·6	6·4
4	47·7	46·0	45·3	45·6	42·5	41·0	37·5	39·1	..	..	..	48·5	49·5	50·3	49·3	38·2	37·0	36·7	37·2	1·2	5·0	6·8	50·6	49·4	49·9	47·5	33·0	31·0	29·2	30·5	5·6	8·5	2·4
5	49·9	49·0	49·2	48·8	42·1	41·0	37·5	39·6	..	0·1	0·5	49·2	49·6	50·2	49·4	40·0	39·5	37·2	37·5	0·6	2·5	3·6	53·9	55·0	52·1	53·5	32·1	30·8	30·7	30·4	4·1	4·4	6·4
6	45·3	45·5	45·2	44·7	38·2	35·8	36·1	35·9	0·4	1·1	4·3	44·8	44·2	45·2	44·8	34·6	33·0	33·4	34·6	2·2	6·8	7·2	42·1	41·5	43·3	41·6	33·5	33·8	30·2	30·7	2·8	3·7	4·7
7	40·4	40·2	41·0	40·5	38·3	38·0	36·0	37·6	..	0·7	..	44·1	43·0	44·0	44·6	36·0	35·5	36·7	38·0	..	..	..	38·9	35·2	38·5	37·1	30·6	29·0	28·2	29·8	2·2	1·8	3·0
8	41·9	40·5	41·3	40·3	33·0	31·0	30·3	32·0	2·0	4·6	2·8	54·0	53·0	53·1	53·2	38·9	39·0	39·4	41·4	..	..	..	35·7	38·6	37·0	34·6	25·8	24·0	23·8	25·3	6·1	5·5	8·1
9	41·4	40·5	38·2	39·3	34·8	34·0	32·2	33·8	1·6	4·0	3·8	49·3	48·4	48·4	48·1	38·5	38·5	38·2	38·5	0·6	2·9	2·7	36·7	36·0	37·3	34·9	24·6	24·0	23·4	25·0	3·8	7·1	9·3
10	43·4	43·0	42·6	42·5	34·4	35·0	35·5	36·9	..	..	..	49·9	49·5	48·7	49·1	40·3	39·0	41·6	43·6	0·1	..	..	35·5	37·5	36·7	35·3	24·1	22·5	22·6	24·3	0·8	2·9	5·8
11	42·0	41·2	40·5	42·7	40·1	39·0	38·0	40·1	..	..	..	49·2	48·5	47·8	46·4	41·2	39·8	39·8	40·5	3·3	4·1	4·9	39·7	40·0	40·4	39·9	28·0	25·8	25·6	26·3	0·5	0·9	1·5
12	42·6	41·0	40·9	41·9	38·2	37·5	37·3	38·3	..	..	..	49·5	49·0	49·1	48·8	41·7	41·0	41·2	42·6	0·8	0·3	..	39·4	39·7	40·4	39·5	28·7	27·0	27·9	28·3	3·7	4·5	8·2
13	45·4	44·5	44·7	45·6	39·4	38·5	34·4	36·4	..	0·1	0·2	48·1	48·8	48·7	47·2	41·2	39·8	37·9	39·0	3·4	5·3	5·4	43·5	44·0	44·3	42·7	29·5	27·5	26·9	27·9	2·0	4·2	6·6
14	46·8	43·0	42·2	43·1	35·0	34·0	33·7	35·6	..	0·5	0·2	49·0	47·5	47·0	48·0	40·2	41·0	40·5	40·5	0·5	..		45·1	45·6	43·7	45·0	33·2	32·4	32·4	33·1	1·5	0·7	4·7
15	48·9	48·0	48·2	47·6	37·5	37·0	38·4	38·4	..	0·1	2·3	53·6	53·0	54·4	52·1	41·8	45·0	39·0	38·3	1·2	1·2	1·4	39·3	37·2	39·4	37·3	32·2	31·0	26·6	27·0	0·3	2·1	1·1
16	45·7	44·5	43·0	44·7	37·5	35·5	34·6	33·5	0·3	..	3·5	48·4	49·0	45·7	47·3	36·4	33·0	32·5	32·7	4·0	1·5	8·3	40·8	40·5	41·1	40·6	25·8	24·0	23·9	24·1	0·8	1·3	2·8
17	51·1	50·0	49·2	47·6	38·1	33·4	32·8	30·7	..	..	..	46·1	46·2	47·1	45·6	36·2	31·8	30·9	29·4	..	1·4	0·1	46·3	46·0	49·4	45·6	31·6	30·0	32·1	32·1	1·0	5·8	5·5
18	52·0	50·8	50·6	50·3	42·3	43·0	43·7	41·7	..	..	..	46·3	46·0	45·4	46·7	39·8	39·0	34·3	35·4	0·7	..	2·3	42·0	43·0	45·4	44·8	33·1	31·0	30·5	30·8	..	0·5	1·9
19	51·4	50·3	49·5	49·9	39·2	36·0	33·0	35·5	..	..	..	42·6	42·4	41·6	43·3	34·9	32·4	32·0	34·7	..	..	1·2	42·4	42·0	43·3	41·9	34·5	33·8	33·3	34·1	..	0·1	0·6
20	50·6	50·0	48·8	49·0	39·5	40·5	41·1	42·1	..	..	..	49·2	48·0	48·3	47·4	36·9	35·0	34·9	35·5	..	..	..	40·2	40·2	41·0	41·7	37·3	36·5	36·7	37·5	..	..	..
21	48·6	49·0	47·8	49·3	39·7	42·8	41·4	43·3	..	..	..	53·9	52·5	52·2	52·7	42·0	40·8	44·3	44·3	..	..	..	40·9	40·5	41·5	40·7	37·6	36·8	34·5	35·3	..	0·3	0·3
22	43·4	42·5	41·9	43·3	40·5	40·0	35·6	37·0	0·3	..	..	54·9	55·0	55·0	54·7	47·4	46·8	38·8	38·5	0·3	0·3	1·6	35·8	34·0	36·2	35·3	30·4	29·9	29·8	30·4	3·2	3·4	3·9
23	39·1	38·5	39·0	39·8	34·2	32·0	29·6	30·1	1·4	5·1	5·4	49·4	49·5	50·1	48·6	37·3	34·0	33·9	33·7	3·2	6·2	8·9	40·7	39·0	38·4	37·7	28·2	27·0	25·5	26·4	7·5	9·6	8·1
24	41·4	37·2	36·9	38·5	32·2	29·0	28·8	30·1	..	0·2	..	52·7	53·0	52·1	52·9	36·3	34·0	34·2	34·3	0·5	2·8	3·4	46·3	46·4	46·8	45·3	24·3	20·0	20·6	22·6	6·2	5·0	6·7
25	48·1	45·7	42·4	43·4	34·6	33·8	34·8	36·1	4·1	3·0	5·4	49·6	49·5	47·8	50·2	39·5	38·2	42·5	43·6	..	..	0·1	43·5	44·0	44·0	43·0	29·0	27·6	26·0	28·3	6·5	9·7	10·7
26	43·4	42·6	47·2	47·1	37·2	36·5	33·3	34·7	1·6	4·8	5·6	46·9	46·5	47·4	47·4	38·9	36·0	35·7	37·3	..	1·3	1·1	44·5	45·6	46·7	44·2	33·1	32·5	28·8	30·0	4·1	4·6	5·5
27	50·4	50·0	50·0	49·5	35·2	33·0	33·2	35·4	..	0·1	0·2	49·6	49·0	48·1	48·4	37·5	36·0	36·8	38·7	0·3	0·7	2·7	43·7	44·5	45·1	42·5	28·9	25·8	24·7	27·0	4·8	5·3	7·6
28	52·9	52·0	49·8	50·1	37·0	36·0	35·2	35·5	2·0	3·2	3·3	55·2	56·0	55·2	54·1	40·5	40·3	44·8	44·2	1·8	1·0	3·9	44·9	46·0	45·4	43·3	30·9	27·2	27·7	27·6	7·0	6·8	7·7
29	53·4	53·0	52·1	52·2	38·2	37·4	40·7	41·4	1·0	..	..	..	..	..	..	..	..	..	..	..	..	..	47·4	47·8	49·1	48·1	33·5	30·0	28·5	28·5	2·6	5·5	3·6
30	44·4	44·5	44·5	44·2	36·8	35·0	35·0	34·1	1·3	3·3	3·9	..	..	..	..	..	..	..	..	..	..	..	52·9	52·0	51·6	52·4	42·8	42·5	37·7	38·0	..	0·1	0·8
31	40·8	40·5	41·5	40·3	32·0	29·0	29·2	29·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	54·7	53·7	56·7	53·0	36·2	32·3	32·7	31·6	5·3	4·4	7·1
Means	46·7	45·7	45·4	45·7	38·3	37·3	36·3	37·2	0·6	1·1	1·5	49·1	48·8	48·5	48·4	38·7	37·4	37·2	37·9	1·0	1·7	2·6	43·6	43·5	44·1	42·9	32·0	30·4	29·3	30·1	2·9	3·8	4·6

NOTE.—At Old Street and Regent's Park the thermometers are read at 9 a.m., the maximum temperature being entered to the previous day; while at Greenwich the thermometers are read at 9 p.m., and at Kew at 10 p.m., the temperature being entered to the civil day.

Abstract of Meteorological Observations for the Month of JANUARY, 1888.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of						Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.															
Alnwick	29·778	37·2	37·7	37·5	33·9	43·0	25·5	31	51·6	1, 29	35·7	36·3	87	88	6·1	6·9	2·47	·55	25	12	2	3	10	0	1	0	2	13	11	14	9	4	8
Cramlington	·780	36·2	37·2	36·7	32·4	42·6	24·8	31	51·6	18	35·0	35·8	88	87	6·1	6·8	1·90	·38	25	16	4	3	10	1	1	0	1	8	11	18	12	11	0
Scaleby	·762	37·4	38·6	38·0	34·3	43·6	24·7	31	52·0	1, 17	36·1	37·2	88	88	7·7	7·1	3·17	·53	1	16	5	3	16	8	1	5	16	7	1	17	5	2	8
Rounton	·804	36·9	38·0	37·5	33·3	42·3	23·0	31	52·8	1, 2	..	..	..	..	..	..	2·55	·60	24	19	0	..	..	5	0	0	5	7	9	23	2	5	11
Scarborough	·821	39·0	39·9	39·5	36·0	43·2	29·9	24	53·4	2	37·6	38·2	88	86	6·9	6·0	1·47	·25	24	14	5	2	12	6	0	0	10	9	5	20	18	0	0
Wakefield	·841	38·2	38·9	38·6	34·7	44·3	25·7	31	56·1	1	37·0	37·4	89	87	7·6	8·6	3·78	·70	28	23	2	0	19	5	0	1	19	6	11	13	11	1	0
Buxton	....	35·9	35·9	35·9	30·6	41·0	8·0	21	51·1	1	35·2	35·1	93	92	7·8	8·0	6·76	·82	28	18	9	1	15	9	1	1	4	14	6	23	7	6	0
Cheadle	·860	36·8	38·0	37·4	33·7	42·8	24·6	31	52·7	1	36·3	37·5	95	95	7·9	7·1	3·68	·59	27	21	6	2	15	6	0	4	15	9	9	13	6	5	1
Llandudno ..	·804	42·2	41·7	42·0	37·2	46·4	30·2	8	54·0	1, 17	40·5	40·4	86	89	6·4	6·8	2·53	·51	28	18	1	2	12	4	0	0	7	7	11	17	19	1	0
Leaton	....	38·0	39·6	38·8	34·4	44·0	26·0	31	52·0	17, 18	36·9	38·4	90	90	..	..	2·53	·37	27	19	2	..	..	..	..	..	..	..	..	..	..	..	..
Churchstoke..	·857	38·6	39·2	38·9	34·3	44·9	26·8	31	56·1	2	37·6	38·3	91	92	7·3	6·7	4·68	·61	28	20	5	0	12	1	1	1	8	16	10	8	12	2	4
Cheltenham ..	·876	40·4	41·3	40·9	36·0	46·2	27·5	7	56·0	1	38·9	39·6	88	86	7·0	7·0	2·67	·50	29	22	1	1	12	5	0	0	7	13	11	16	5	0	10
Carmarthen ..	·838	41·3	41·4	41·4	36·0	46·8	28·1	7	52·0	1	40·1	40·3	90	91	7·1	6·7	6·04	·86	28	23	1	1	15	3	0	0	12	9	7	12	7	0	15
Babbacombe..	·890	43·8	43·3	43·6	39·3	49·0	31·8	7	55·9	18	42·3	42·0	88	90	7·8	6·7	3·86	·51	25	22	3	1	13	11	1	2	10	8	6	18	13	2	2
Downside	·887	39·8	40·4	40·1	35·6	44·9	28·1	31	53·4	1	39·1	39·6	94	93	7·9	7·8	4·56	·63	24	25	2	0	18	8	0	16	3	8	3	25	6	1	0
Marlborough	·906	38·9	39·7	39·3	36·1	44·6	28·3	31	53·2	1	38·2	38·9	94	93	7·6	6·8	3·79	·39	24	24	3	3	15	0	0	1	14	8	10	7	10	4	8
Strathfield T.	·922	40·2	40·2	40·2	35·5	46·2	25·8	31	54·6	1	39·0	39·0	90	90	6·8	7·2	2·39	·47	29	22	1	2	15	0	1	5	6	14	6	14	12	3	1
Norwood	·924	40·3	41·0	40·7	37·1	45·6	28·1	31	54·7	1	39·1	39·8	90	90	6·7	6·6	1·97	·39	15	21	2	3	13	7	2	6	10	7	9	9	11	3	5
Croydon	·926	40·1	41·0	40·6	37·1	45·8	26·7	23	55·1	2	38·6	39·6	88	88	6·9	6·6	2·04	·26	15, 24	20	2	3	13	4	0	5	6	7	6	16	8	0	14
Southbourne	·904	42·4	42·3	42·4	38·9	47·1	31·3	9	52·7	2	41·2	41·2	90	91	6·8	6·7	2·19	·29	24	20	0	4	15	4	2	9	4	11	9	9	11	4	3
Margate	·929	40·8	41·8	41·3	37·5	45·6	30·2	24	55·6	1	39·5	40·5	89	89	6·4	7·5	1·44	·24	10, 29	20	1	3	12	3	1	3	8	8	5	20	4	2	11
Hillington ..	·894	38·1	38·2	38·2	32·9	43·8	25·2	31	54·5	2	37·1	37·3	91	92	8·0	7·3	1·84	·47	24	14	2	3	19	3	3	2	9	19	4	19	3	3	0
Lowestoft	·903	39·9	40·5	40·2	36·1	44·3	29·6	31	54·4	1	38·3	38·9	87	87	6·2	7·1	1·74	·29	25	17	1	1	12	1	2	3	6	15	5	14	12	4	1
Dublin	·745	42·3	43·0	42·7	38·7	47·7	30·4	7	55·7	1	40·5	41·0	86	84	6·2	5·7	2·68	·68	24	20	4	1	7	6	0	0	5	14	11	14	17	0	1
Killarney	29·712	45·5	44·4	45·0	39·0	50·0	28·4	31	55·3	1	43·5	42·5	85	85	8·2	6·0	11·83	2·63	28	26	2	0	14	11	1	0	8	7	6	18	15	3	4
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33



EXPLANATION OF THE SYMBOLS.—● indicates rain; ✱ snow; ▲ hail ≡ fog; K thunderstorm; T thunder; ≮ lightning; ○ solar halo; ☫ lunar halo; Ш aurora.

Abstract of Meteorological Observations for the Month of FEBRUARY, 1883.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of						Wind. No. of Observations of							
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.														
Alnwick.....	29·904	39·9	39·6	39·7	35·3	46·7	27·0	1	54·5	25	38·4	38·0	88	87	7·0	5·6	2·59	·55	8	14	1	3	11	0	0	0	1	8	13	13	9	2	10
Cramlington	·917	40·4	39·2	39·8	34·2	46·6	26·3	1	54·6	20	38·9	38·0	88	90	6·4	5·3	1·42	·70	1	16	1	2	10	3	3	0	0	3	11	8	20	11	0
Scaleby.....	·910	40·7	41·0	40·9	36·3	47·1	28·1	19	52·5	25	39·2	39·2	88	85	7·3	6·6	1·51	·21	9	19	0	1	12	9	2	0	2	12	4	22	7	1	6
Rounton	·954	40·9	40·9	40·9	35·6	46·5	27·0	1	54·3	21	39·7	39·8	90	91	..	..	2·55	·51	1	17	1	..	..	5	4	0	1	4	8	26	8	3	2
Scarborough..	·973	41·5	41·7	41·6	37·5	46·6	33·0	1	55·3	27	39·9	40·1	87	88	6·0	5·5	2·58	·65	10	17	2	3	8	5	1	1	1	9	8	21	12	2	1
Wakefield....	29·986	41·7	41·6	41·6	37·0	47·2	28·6	1	55·8	21	39·9	39·7	86	85	7·5	6·9	2·16	·45	1	19	1	1	11	0	0	0	7	7	7	16	16	3	0
Buxton	....	39·0	38·4	38·7	34·0	44·8	27·7	1	53·1	21	38·0	37·5	92	92	7·7	7·3	4·73	·63	1	19	8	1	15	0	0	0	0	9	9	22	12	11	0
Cheadle.....	30·018	39·1	39·4	39·3	35·2	46·2	30·0	1	55·4	24	38·4	38·6	95	93	7·5	6·6	2·19	·32	1	17	1	2	12	3	2	2	3	11	9	13	8	6	2
Llandudno ..	29·961	44·1	43·8	43·9	39·5	48·7	32·2	1	54·8	21	42·0	41·8	84	84	6·8	6·7	2·79	·53	13	18	1	0	9	3	0	0	0	3	6	25	22	0	0
Leaton	30·013	40·9	41·0	41·0	35·5	48·3	26·0	1	55·0	21	40·0	39·6	93	88	6·2	5·5	2·00	·44	1	13	3	2	8	1	5	0	2	8	11	8	21	1	0
Churchstoke..	·018	42·3	40·6	41·5	35·8	48·8	30·0	1	55·1	21	41·1	39·4	90	90	6·6	5·9	5·59	1·30	1	20	7	0	6	1	3	0	3	10	13	11	12	4	0
Cheltenham...	·042	42·2	41·8	42·0	36·6	48·9	28·2	16	55·5	24	40·8	40·0	88	86	6·6	5·8	4·60	·69	10	22	0	3	8	4	0	0	0	6	17	14	9	3	7
Carmarthen ..	·006	43·2	42·7	42·9	37·6	49·0	30·3	1	53·6	14	42·0	41·4	91	89	7·8	7·3	6·20	·91	17	21	0	1	16	3	0	0	0	5	6	7	14	7	1	16
Babbacombe..	·078	43·9	42·8	43·3	37·7	50·6	29·2	1	57·6	27	42·5	41·5	89	89	7·1	6·1	5·68	1·21	1	18	0	1	10	7	0	1	1	5	10	18	15	5	1
Downside	·065	41·3	41·0	41·2	37·0	47·5	28·5	1	53·0	25	40·6	40·0	94	91	6·8	6·7	5·40	·75	10	19	1	3	11	6	1	3	0	8	6	24	6	7	1
Marlborough	·084	41·1	40·0	40·6	36·4	48·1	30·9	16	52·7	28	40·2	39·0	92	91	7·9	6·9	5·50	1·13	10	19	0	0	12	0	1	0	1	2	14	11	13	6	8
Strathfield T.	·095	42·7	41·6	42·2	36·1	49·6	28·7	16	55·8	28	41·6	40·4	91	90	7·5	6·3	4·42	·75	10	16	0	3	15	0	0	0	0	8	5	14	20	8	1
Norwood	·096	41·7	42·1	41·9	37·6	48·6	32·7	1	54·3	22	40·4	40·7	89	89	7·3	5·4	3·22	·66	8	16	0	4	12	4	0	0	1	4	16	12	19	4	0
Croydon	·101	42·0	42·5	42·2	37·8	48·6	28·7	17	53·8	22	40·5	40·8	88	86	7·8	4·8	4·32	·71	10	16	0	4	11	4	0	0	2	9	12	15	11	0	7
Southbourne	·089	43·7	43·5	43·6	39·3	49·3	28·9	1	53·8	22	42·6	42·2	91	90	6·6	5·0	3·55	·56	10	18	0	7	10	5	0	0	2	7	12	7	12	7	9
Margate	·116	41·8	42·5	42·2	38·1	47·9	33·1	24	53·6	22	40·4	41·1	89	89	6·8	5·1	2·25	·32	8	16	1	6	10	1	1	1	1	6	8	26	4	5	4
Hillington.....	·055	41·1	40·3	40·7	35·1	48·3	29·1	26	55·7	24	39·9	39·4	90	92	7·4	5·3	3·01	·77	10	15	1	3	10	1	2	2	1	7	10	22	5	7	0
Lowestoft	30·068	41·3	41·3	41·3	36·9	47·4	31·6	20	53·7	22, 24	39·9	39·9	88	88	7·0	4·7	2·17	·39	10	15	0	4	9	0	1	0	1	6	9	11	18	9	1
Dublin	29·904	42·8	44·0	43·4	38·9	48·3	29·1	19	57·9	21	40·9	41·9	85	84	6·1	6·4	3·75	1·01	1	17	5	1	9	6	0	0	1	5	11	12	20	2	5
Killarney	29·889	43·9	43·6	43·7	36·9	49·9	27·4	1	56·8	28	41·9	41·9	84	87	7·6	6·4	14·38	2·39	16	22	3	0	11	5	0	0	2	3	9	16	8	4	14
Columns	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Alnwick ..	●≡	●▲≡	..	..	..	..	●✳	●	●	●	●▲	●	●	◍	..	..	●	●	●	..	..	Ψ	..	..	..	Ψ	Ψ	◍
Cramlington	◍≡Ш	●≡	●	.	..	◍	●✳	●≡	◍	●≡	●	◍Ψ	●	..	≡	..	●	●	Ψ	..	◍	..	..	..	..	≡	●	●
Scaleby	●	◍	●	●	..	●	●	●	●	◍	●	●	◍	●	●	..	●	●	..	●	◍	..	..	..	..	..	●	..
Rounton	●≡	◍	..	..	..	●	●✳	●	●	◍	●	●	◍	●	●	..	●	◍	●	..	..	..	..	..	..	..	●	●
Scarborough	◍≡Ш	●	..	○	..	..	●✳	●	●	●	●✳	●	◍	●	●	..	●	●	●	..	◍	Ψ	..	..	..	..	●	●
Wakefield ..	●	◍	●	..	●	●	◍✳	●	◍	●	●	●	●	●	◍	◍Ψ	●	..	..	●	◍	..	..	..	..	..	..	●
Buxton	◍✳	◍✳	●	..	..	●	●✳≡	◍✳	●	●	◍✳▲	◍	◍✳	●	●	✳○	◍	✳	●○	●	◍	..	..	..	..	≡	●	●≡
Cheadle	◍✳	●	●	..	..	◍≡	◍	◍	●	●	●	◍	●	◍	◍	..	◍	..	●	..	..	..	..	..	..	..	●	●
Llandudno ..	◍✳	●	●	..	..	●	●	●	◍	●≡	●	◍	◍▲	◍	◍▲	..	◍	●	●	..	◍	..	..	..	..	..	●	..
Leaton	◍✳	◍≡	..	..	..	●	●≡	◍≡	◍	◍	◍✳	●	◍✳	●	◍▲	..	..	..	..	..	..	..	..	..	..	≡	..	●
Churchstoke	●✳	●✳	●	..	..	●	◍	◍	●	◍✳	●✳	●	●✳	●	●✳▲	..	◍	◍✳	◍	..	◍	◍Ψ	..	..	..	..	●	●
Cheltenham	◍	◍	◍	◍	..	◍	◍	●	◍	●≡	●	●	◍	◍	●Ƙ	◍	◍	◍	◍Ψ	◍	◍	..	..	..	..	◍	●	◍
Carmarthen	◍	◍	◍	..	..	●	◍	●	◍≡	●	●▲	◍	●▲Ψ	◍	◍	●	●	◍≡	●	◍	◍	..	◍	..	..	..	●	..
Babbacombe	◍▲Ƙ○	●	◍▲	..	..	◍	◍	◍≡	●	●	●	●▲	●▲Ψ	●	●	○Ψ	◍	○	◍○Ψ	◍	◍	..	..	≡	≡	..	◍≡	..
Downside ..	◍≡	◍	●	.	..	●	◍	◍≡	●	●	●	●	●✳	●	●	Ψ	●	●	◍Ψ	◍	◍	◍	..	..	..	≡	..	≡
Marlborough	●≡	●	●	..	..	●	◍	◍≡	◍	●	●	●	●	●	●▲	..	◍Ψ	◍≡	◍Ψ	..	●	..	..	..	..	..	●	●
Strathfield T.	◍≡	●	●	.	..	◍	◍	●	◍	◍	◍	●	●	◍	●▲	..	◍	..	●	..	..	..	..	..	..	..	..	◍
Norwood	◍≡	◍	○	◍	≡○	●	◍≡	◍≡	◍≡	◍	..	◍	..	◍	●	≡	◍≡	◍≡	≡	◍≡	..	..	..	≡	≡	≡	●	◍≡
Croydon	◍≡	◍	..	..	≡○	●	◍	◍	●	●	..	◍	●▲	●	◍	≡	●	●	▲≡	●	..	..	..	≡	≡	≡	◍≡	◍≡
Southbourne	◍≡	◍	●	◍	..	◍	●	●	●	●	◍	◍	●	●	●	Ψ	◍	..	●	..	≡	..	..	..	..	..	●	◍
Margate	◍	●	◍	..	..	..	◍✳	●	◍≡	●	●	●	..	●	●Ψ	..	Ψ	●	●	●	..	..	..	..	..	≡	●	◍≡
Hillington ..	◍	●	◍	..	..	..	●✳	◍	●	●	..	●	..	●	◍	..	..	●	●	●	..	..	..	..	..	..	◍	◍
Lowestoft ..	●	◍	●	..	..	..	●	●	●	●	..	◍	..	●	●Ψ	..	..	◍	●	●	..	..	..	..	..	..	●	●
Dublin	●✳▲≡○	●✳	●✳	..	●	●	●	○	◍	●▲	●✳	●▲	●	●	●✳▲Ƙ	●	●	≡	≡○	..	◍	..	..	..	≡	..	●	..
Killarney ..	●✳	●✳	●	●	◍	●	◍▲	◍	◍	●	◍	●▲Ƙ	●✳▲	●▲Ƙ	●▲	●	●	..	◍	..	◍	..	◍	◍	..	..	..	●≡

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✳ snow; ▲ hail; ≡ fog; Ƙ thunderstorm; ⊤ thunder; ≮ lightning; ○ solar halo; Ψ lunar halo: Ш aurora.

Abstract of Meteorological Observations for the Month of MARCH, 1888.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of					Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.														
Alnwick	29·945	34·8	33·5	34·2	29·5	43·1	23·6	10, 17	56·3	2	33·2	31·8	85	82	6·5	4·5	2·11	·57	19	14	18	6	11	0	5	0	9	2	5	3	7	19	12
Cramlington..	·945	35·5	32·6	34·1	27·7	42·2	21·0	17	59·4	4	33·5	....	82	..	5·8	4·3	1·50	·39	19	19	16	6	6	4	16	7	7	6	5	6	5	10	0
Scaleby	·959	34·3	32·9	33·6	27·8	43·7	12·9	9	55·2	1	33·1	32·0	88	90	6·0	4·1	1·76	·50	18	9	3	9	7	4	12	6	12	5	1	8	5	2	11
Rounton	·948	33·3	32·1	32·7	26·8	40·6	12·1	15	56·8	4	....	....	..	..	..	..	1·77	·37	7	13	14	..	..	4	16	4	7	3	3	10	1	10	8
Scarborough..	·939	36·9	35·2	36·0	31·1	41·9	23·0	10	51·8	5	34·7	33·6	81	85	5·2	4·6	1·78	·27	19	18	16	5	5	6	9	4	10	2	4	8	9	15	1
Wakefield	·958	35·0	33·2	34·1	28·4	42·1	14·1	10	56·0	4	33·3	31·8	84	85	6·5	6·1	1·02	·42	19	13	9	1	8	1	16	3	8	5	3	3	12	12	0
Buxton	....	34·0	29·5	31·8	23·2	39·6	5·0	10	51·1	4, 5	32·8	29·0	88	91	6·6	4·2	1·82	·70	19	10	14	6	8	0	0	12	8	6	1	4	4	25	2
Cheadle	·964	33·3	32·3	32·8	27·8	41·0	20·5	10	54·0	4	31·7	31·4	83	89	5·7	4·3	1·19	·48	19	13	16	7	8	4	11	3	13	6	2	1	5	19	2
Llandudno ..	·984	38·8	37·5	38·2	32·7	43·1	26·0	24	52·8	3	36·1	35·2	78	80	7·3	5·6	1·73	·45	29	13	14	3	14	4	10	10	12	3	1	7	14	5	0
Leaton	·983	34·6	32·3	33·4	26·5	42·0	13·6	10	54·0	30	33·1	31·3	86	87	5·0	3·4	1·04	·33	19	12	11	12	9	..	17	4	11	3	3	2	12	6	4
Churchstoke..	·991	35·0	32·5	33·7	26·5	41·8	11·2	10	54·4	4	33·6	31·3	86	86	6·2	4·4	1·35	·44	19	15	15	2	5	1	8	11	5	5	4	3	14	10	2
Cheltenham ..	·960	35·4	33·7	34·5	26·6	43·4	16·5	24	57·8	4	33·2	32·1	80	83	5·5	4·6	1·31	·57	19	12	11	9	8	5	14	8	6	1	4	3	12	4	10
Carmarthen ..	·962	38·4	35·8	37·1	29·5	45·6	19·0	10	58·3	1	35·8	34·1	79	84	5·2	4·4	1·52	·86	29	14	9	7	4	0	12	4	9	1	1	2	4	5	24
Babbacombe..	·962	39·6	36·4	38·0	31·7	45·8	23·3	16, 24	55·9	30	36·4	34·1	75	80	5·2	3·7	1·37	·62	29	10	11	11	8	4	16	13	10	2	1	5	8	7	0
Downside	·953	35·4	34·2	34·8	28·5	42·7	18·1	10	53·8	5	33·6	32·8	83	86	4·7	4·0	1·32	·40	29	12	13	10	8	5	4	27	2	1	2	11	7	8	0
Marlborough	·964	35·2	33·2	34·2	27·6	43·1	18·5	24	55·2	5	33·0	31·7	80	84	4·7	4·5	1·29	·54	19	10	16	12	9	0	15	4	16	0	3	3	5	5	11
Strathfield T.	·956	36·0	34·0	35·0	28·2	45·3	13·8	24	56·2	5	34·2	32·8	83	88	4·5	3·9	·77	·38	19	5	9	9	4	0	13	16	10	4	1	4	5	7	2
Norwood	·944	35·4	35·0	35·2	30·1	43·2	19·9	24	53·6	31	33·1	33·1	79	82	5·3	5·2	·78	·36	19	12	14	6	7	3	16	6	11	0	4	3	9	9	4
Croydon	·945	35·1	34·7	34·9	30·1	42·7	20·9	24	55·3	31	32·9	32·7	79	81	6·5	4·9	·97	·40	19	11	15	5	9	2	8	11	5	1	3	5	9	8	12
Southbourne	·948	37·2	35·7	36·4	30·7	45·1	23·0	10	56·2	5	34·5	33·5	77	80	3·5	2·7	·72	·32	19	8	0	14	3	1	22	15	0	1	1	3	4	13	3
Margate	·922	36·5	36·4	36·4	32·2	42·0	24·2	24	53·4	31	34·3	34·5	81	83	6·3	5·5	1·12	·25	7	17	11	4	9	0	9	9	16	0	4	7	3	7	7
Hillington....	·931	36·3	33·3	34·8	28·2	42·6	13·6	10	53·7	31	34·0	32·3	80	89	6·7	6·6	1·80	·30	11	19	15	3	13	1	9	18	10	3	2	7	3	10	0
Lowestoft ...	29·906	35·7	35·2	35·5	30·9	41·3	22·6	24	54·0	31	34·1	33·7	86	86	7·1	5·8	1·46	·27	11	18	15	4	10	1	6	9	19	1	3	1	10	13	0
Dublin	30·004	37·9	38·2	38·0	33·7	44·3	25·4	24	51·5	1	35·3	35·8	79	80	5·6	5·2	1·06	·46	20	12	10	6	7	3	12	5	8	6	2	1	12	12	4
Killarney	30·025	39·6	38·2	38·9	32·1	46·2	18·8	24	54·7	1	37·4	36·8	82	88	6·0	5·6	3·28	1·72	29	16	7	4	7	2	8	7	8	5	2	2	4	7	19
Columns ...	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Alnwick	..	≡	≡	≡	..	✱▲	✱▲	✱▲	..	✱▲	●✱ ▲	✱	..	✱▲	✱ψ	✱	✱▲	✱▲	●✱	..	✱	✱	..	✱▲	◍✱	✱▲	✱	..	●	◍	▲
Cramlington	..	≡	≡	..	●	✱▲	✱	✱▲	..	●	●✱	✱	..	✱	✱	▲✱	✱	●	●✱	..	✱	✱	..	●✱	●✱ ▲	▲✱	✱	..	●	●	..
Scaleby	..	..	..	..	..	..	●✱	●✱	..	..	..	..	●	..	..	..	●✱	◍	●	●	..	..	..	..	..	..	..	..	●	●	..
Rounton	..	≡	..	..	..	✱	✱	✱	✱	..	✱	✱	◍	✱	✱	✱	..	●	●✱	..	✱	✱	..	..	..	✱	✱	..	◍	●	..
Scarborough	..	..	..	..	●	✱	✱	✱	✱▲	..	✱▲	✱	●ψ	✱	✱	●✱	✱	..	●	..	●✱	✱	..	●✱ ▲	✱	✱	✱	..	◍	●	..
Wakefield	..	..	..	..	●	●✱	●✱	●✱	..	..	✱	..	..	..	✱	●✱	..	●✱	●✱	..	..	..	..	◍	◍✱	..	●	..	◍	..	..
Buxton	..	≡	..	..	..	✱	✱	✱	✱	..	..	..	..	✱	✱	●	✱	✱	✱	✱	..	✱	..	●✱ ▲	✱	✱	..	..	◍	●	..
Cheadle	..	..	..	..	..	✱	✱	✱	✱	✱	✱	..	..	✱≡	..	●✱ ▲	✱	..	●✱ ≡	●✱	..	✱	..	●✱	◍✱ ▲	✱	✱	..	●	●	..
Llandudno ..	≡	≡	..	..	..	..	✱	✱	✱	✱	✱	..	..	✱≡	✱	✱▲	✱▲	✱	●≡	●✱ ≡	..	..	..	..	◍<	✱▲	✱▲	✱	◍	●	..
Leaton	..	..	..	..	..	✱	✱	✱	..	..	✱	..	..	●	✱	✱	✱	✱	✱≡	✱	..	..	..	..	●	✱	..	..	◍	●	..
Churchstoke	◍	..	..	..	..	✱	✱	✱	✱	..	✱	..	..	..	✱	●✱	●✱ ▲	✱	✱	✱	..	..	..	..	●✱	✱	✱	✱	◍	◍	..
Cheltenham	..	..	..	..	..	..	..	✱▲	✱	..	✱	✱	●	≡	✱	..	●✱ ▲	✱	●	✱	..	✱	..	..	..	✱	..	✱▲	◍	●	..
Carmarthen ..	..	..	..	..	..	..	..	✱	..	..	✱	..	●	..	✱	●✱	●✱	✱	●ψ	●	..	..	..	..	✱	✱▲	✱	●	◍	●	..
Babbacombe	..	..	..	..	..	..	✱	✱	✱	✱	..	✱	●	◍○	✱	✱○	●✱ ▲	✱	○ψ	●≡	◍▲	..	..	..	●	✱	✱	..	◍	◍	●
Downside ..	..	..	..	..	..	✱	..	✱	..	≡	✱	..	●✱	..	✱	✱	✱▲	✱	●≡	●✱ ≡	◍✱	..	..	..	●	●✱	✱	✱	●	●	..
Marlborough ..	..	..	..	..	≡	..	✱	✱	✱	✱	✱	✱	✱	✱≡	✱	✱	✱	..	●≡	✱≡	..	✱	..	..	●	✱	✱	✱	●	◍	≡
Strathfield T.	..	≡	..	≡	≡	✱	✱	..	..	✱	✱	..	..	..	..	..	●✱ ▲	..	●✱ ≡	≡	..	..	..	..	●	✱	✱	✱	..	◍	≡
Norwood ..	≡	..	≡	≡	◍≡	✱	✱	✱ψ	✱≡	✱≡ ○	✱≡	✱≡	✱○	✱	✱≡	○	●	..	●≡	..	..	✱	..	●≡	≡	✱≡	✱≡ ○	✱≡	◍○	◍	≡○
Croydon	..	..	..	≡	●≡	▲✱	✱	✱	✱	✱	✱≡	✱≡	✱	✱≡	✱	✱	●▲ ≡	..	●≡	..	..	✱	..	●✱ ≡	..	✱≡	✱≡	≡	●	●	≡○
Southbourne ..	..	..	..	..	..	..	..	..	..	..	..	..	●	..	..	..	◍	..	◍	●	●	..	..	..	..	◍	..	..	●	●	..
Margate	..	..	..	..	..	✱▲	✱▲	✱▲	✱	✱▲	✱	✱	◍	◍	..	..	◍	◍✱	◍	..	..	..	..	✱	..	✱	✱	..	◍	◍	..
Hillington ..	..	..	..	..	◍≡	✱	✱▲	✱▲	✱	✱	✱▲	✱▲	..	..	✱▲	✱▲	✱	●	◍	..	..	✱	..	●✱	◍✱ ▲	◍✱	✱	..	◍	◍	..
Lowestoft	..	..	..	..	●	✱▲	✱▲	✱▲	✱▲	✱▲	✱▲	✱	●	..	✱	✱	✱	◍✱	◍	..	..	..	..	✱	◍✱	✱	✱	..	..	◍	..
Dublin	◍	..	..	≡	..	..	●✱ ▲	✱▲	..	✱≡	..	▲	..	●✱ ▲≡	✱▲ T	●✱ ▲○	●✱ ▲	✱▲	..	●≡	..	✱	..	..	●	◍✱ ▲	▲<	▲○	●	◍▲	..
Killarney ..	≡	≡	..	..	..	..	◍	✱	..	✱	◍	◍	◍	◍	..	◍✱	◍▲	✱▲	..	ψ	◍	..	..	..	◍	◍✱ ▲	◍✱	●	◍	◍▲	✱▲

EXPLANATION OF THE SYMBOLS.—◍ indicates rain; ✱ snow; ▲ hail; ≡ fog; K thunderstorm; T thunder; < lightning; ○ solar halo; ψ lunar halo; ψ aurora.

Abstract of Climatological Observations for the Quarter ending MARCH 31st, 1888.

Station.	JANUARY.												FEBRUARY.												MARCH.											
	Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.	Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.	Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.								Means.				Extremes in Month.								Means.				Extremes in Month.						
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.	
Alnwick	37·2	87	33·9	43·0	9·1	38·5	25·5	51·6	26·1	6·1	2·47	12	39·9	88	35·3	46·7	11·4	41·0	27·0	54·5	27·5	7·0	2·59	14	34·8	85	29·5	43·1	13·6	36·3	23·6	56·3	32·7	6·5	2·11	14
Cramlington .	36·2	88	32·4	42·6	10·2	37·5	24·8	51·6	26·8	6·1	1·90	16	40·4	88	34·2	46·6	12·4	40·4	26·3	54·6	28·3	6·4	1·42	16	35·5	82	27·7	42·2	14·5	35·0	21·0	59·4	38·4	5·8	1·50	19
Stapleton	36·8	94	33·0	41·3	8·3	37·2	23·5	49·4	25·9	8·8	4·49	18	39·3	93	34·3	44·6	10·3	39·4	26·3	52·3	25·0	..	2·39	23	34·6	86	27·6	41·0	13·4	34·3	19·5	54·6	35·1	6·7	1·13	13
Scaleby	37·4	88	34·3	43·6	9·3	39·0	24·7	52·0	27·3	7·7	3·17	16	40·7	88	36·3	47·1	10·8	41·7	28·1	52·5	24·4	7·3	1·51	19	34·3	88	27·8	43·7	15·9	35·7	12·9	55·2	42·3	6·0	1·76	9
Alston	34·0	89	30·0	39·7	9·7	34·9	11·8	48·8	37·0	7·8	5·37	22	37·4	88	32·4	41·3	8·9	36·8	14·0	48·7	34·7	7·4	4·89	21	30·7	85	21·2	39·2	18·0	30·2	4·8	57·2	52·4	6·3	2·69	19
Seathwaite ..	38·7	85	35·2	42·8	7·6	39·0	23·4	51·5	28·1	8·3	21·07	23	40·4	86	36·4	45·2	8·8	40·8	26·4	51·1	24·7	8·0	17·80	24	33·8	82	28·2	42·2	14·0	35·2	17·9	59·8	41·9	5·8	6·66	10
St. Mich.-on-Wyre	38·2	90	34·8	44·0	9·2	39·4	24·9	52·3	27·4	7·7	5·81	22	42·0	89	36·9	47·7	10·8	42·3	26·3	52·0	25·7	7·2	2·87	18	36·5	77	28·3	43·6	15·3	36·0	20·0	55·3	35·3	5·6	1·12	10
Blackpool	38·6	91	34·4	43·8	9·4	39·1	26·9	52·7	25·8	7·3	5·17	22	42·5	91	37·4	47·1	9·7	42·3	26·6	51·1	24·5	6·4	1·87	18	37·1	80	29·8	42·6	12·8	36·2	22·7	56·0	33·3	4·7	1·31	9
Bolton	37·5	92	34·0	42·3	8·3	38·2	25·3	52·0	26·7	7·7	6·96	23	40·1	91	36·0	46·0	10·0	41·0	27·5	52·1	24·6	8·3	3·28	21	35·0	81	28·8	41·2	12·4	35·0	19·6	55·0	35·4	5·2	1·40	14
Rounton	36·9	..	33·3	42·3	9·0	37·8	23·0	52·8	29·8	..	2·55	19	40·9	90	35·6	46·5	10·9	41·1	27·0	54·3	27·3	..	2·55	17	33·3	..	26·8	40·6	13·8	33·7	12·1	56·8	44·7	..	1·77	13
Scarborough ..	39·0	88	36·0	43·2	7·2	39·6	29·9	53·4	23·5	6·9	1·47	14	41·5	87	37·5	46·6	9·1	42·1	33·0	55·3	22·3	6·0	2·58	17	36·9	81	31·1	41·9	10·8	36·5	23·0	51·8	28·8	5·2	1·78	18
,, (St. Nichs.)	38·3	90	34·7	43·3	8·6	39·0	27·7	53·4	25·7	8·2	1·86	15	41·3	87	36·5	46·6	10·1	41·6	30·2	53·9	23·7	6·9	2·95	18	35·4	83	30·3	41·1	10·8	35·7	20·2	53·9	33·7	6·4	1·61	17
Wakefield	38·2	89	34·7	44·3	9·6	39·5	25·7	56·1	30·4	7·6	3·78	23	41·7	86	37·0	47·2	10·2	42·1	28·6	55·8	27·2	7·5	2·16	19	35·0	84	28·4	42·1	13·7	35·3	14·1	56·0	41·9	6·5	1·02	13
Hodsock	38·0	91	34·2	44·2	10·0	39·2	22·4	54·5	32·1	6·9	2·51	19	41·8	89	36·3	47·8	11·5	42·1	25·4	56·6	31·2	6·4	2·73	17	35·4	82	27·4	42·3	14·9	34·8	5·3	55·5	50·2	5·7	1·15	12
Strelley	37·3	93	34·1	43·1	9·0	38·6	24·9	53·1	28·2	7·4	2·46	21	40·2	91	35·6	47·3	11·7	41·5	27·6	56·9	29·3	6·8	3·00	17	35·0	78	27·9	41·7	13·8	34·8	15·2	53·5	38·3	5·3	1·21	13
Belper	37·9	91	34·2	43·4	9·2	38·8	25·2	53·6	28·4	5·3	3·62	18	40·8	90	36·2	47·1	10·9	41·7	26·6	55·3	28·7	4·8	3·02	14	34·3	84	28·0	41·2	13·2	34·6	16·7	52·7	36·0	2·1	1·31	8
Cheadle	36·8	95	33·7	42·8	9·1	38·3	24·6	52·7	28·1	7·9	3·68	21	39·1	95	35·2	46·2	11·0	40·7	30·0	55·4	25·4	7·5	2·19	17	33·3	83	27·8	41·0	13·2	34·4	20·5	54·0	33·5	5·7	1·19	13
Oakamoor	38·4	..	32·9	45·0	12·1	39·0	20·3	53·8	33·5	9·1	4·48	21	40·7	88	34·9	47·3	12·4	41·1	28·3	56·1	27·8	9·2	3·49	18	34·5	..	26·1	41·4	15·3	33·7	13·5	54·5	41·0	9·1	1·26	9
Buxton	35·9	93	30·6	41·0	10·4	35·8	8·0	51·1	43·1	7·8	6·76	18	39·0	92	34·0	44·8	10·8	39·4	27·7	53·1	25·4	7·7	4·73	19	34·0	88	23·2	39·6	16·4	31·4	5·0	51·1	46·1	6·6	1·82	10
Macclesfield ..	37·9	93	34·6	42·7	8·1	38·7	26·1	52·8	26·7	5·8	3·46	17	40·1	93	36·2	46·8	10·6	41·5	28·7	56·7	28·0	6·3	2·26	18	33·7	87	27·5	40·8	13·3	34·1	15·8	55·7	39·9	5·4	·91	12
Chester	39·2	89	35·9	45·3	9·4	40·6	28·1	55·1	27·0	8·6	2·92	19	42·7	85	38·0	49·9	11·9	44·0	30·2	57·8	27·6	8·1	2·03	17	36·8	79	30·4	43·7	13·3	37·0	20·7	56·7	36·0	7·1	1·17	13
Leaton .. .	38·0	90	34·4	44·0	9·6	39·2	26·0	52·0	26·0	..	2·53	19	40·9	..	35·5	48·3	12·8	41·9	26·0	55·0	29·0	6·2	2·00	13	34·6	86	26·5	42·0	15·5	34·3	13·6	54·0	40·4	5·0	1·04	12
Churchstoke ..	38·6	91	34·3	44·9	10·6	39·6	26·8	56·1	29·3	7·3	4·68	20	42·3	90	35·8	48·8	13·0	42·3	30·0	55·1	25·1	6·6	5·59	20	35·0	86	26·5	41·8	15·3	34·2	11·2	54·4	43·2	6·2	1·35	15
Kenilworth ..	38·8	92	35·3	44·7	9·4	40·0	26·4	54·0	27·6	7·3	3·28	23	41·0	90	36·5	48·0	11·5	42·3	27·2	56·1	28·9	7·3	3·00	17	34·5	85	28·2	41·8	13·6	35·0	16·4	54·1	37·7	5·5	1·27	13
Burghill	39·2	91	35·8	46·0	10·2	40·9	28·4	56·2	27·8	7·2	3·00	22	43·3	88	37·4	50·9	13·5	44·2	30·2	58·7	28·5	6·6	3·61	17	36·9	82	29·5	44·5	15·0	37·0	17·8	56·6	38·8	4·7	·84	12
Ross	40·4	92	36·3	46·0	9·7	41·2	27·7	54·5	26·8	7·4	4·25	23	43·4	91	36·4	50·7	14·3	43·5	27·0	58·8	31·8	5·4	4·33	18	37·8	82	28·9	45·3	16·4	37·1	18·8	56·7	37·9	3·8	·92	8
Cheltenham	40·4	88	36·0	46·2	10·2	41·1	27·5	56·0	28·5	7·0	2·67	22	42·2	88	36·6	48·9	12·3	42·8	28·2	55·5	27·3	6·6	4·60	22	35·4	80	26·6	43·4	16·8	35·0	16·5	57·8	41·3	5·5	1·31	12
Llandudno	42·2	86	37·2	46·4	9·2	41·8	30·2	54·0	23·8	6·4	2·53	18	44·1	84	39·5	48·7	9·2	44·1	32·2	54·8	22·6	6·8	2·79	18	38·8	78	32·7	43·1	10·4	37·9	26·0	52·8	26·8	7·3	1·73	13
Aberystwith ..	42·8	84	38·8	47·8	9·0	43·3	33·0	55·2	22·2	..	1·90	15	44·0	84	40·1	48·7	8·6	44·4	33·0	54·8	21·8	..	2·10	18	38·0	..	33·6	43·8	10·2	38·7	31·0	53·0	22·0	..	1·60	15

Station.	JANUARY.												FEBRUARY.												MARCH.											
	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.								Means.				Extremes in Month.								Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.	
Carmarthen ..	41·3	90	36·0	46·8	10·8	41·4	28·1	52·0	23·9	7·1	6·04	23	43·2	91	37·6	49·0	11·4	43·3	30·3	53·6	23·3	7·8	6·20	21	38·4	79	29·5	45·6	16·1	37·6	19·0	58·3	39·3	5·2	1·52	14
Cardiff.....	41·8	89	38·0	46·1	8·1	42·1	30·0	54·2	24·2	..	5·75	25	43·1	91	38·6	49·8	11·2	44·2	29·9	54·7	24·8	..	3·73	20	38·0	..	31·5	45·1	13·6	38·3	21·2	55·6	34·4	..	·60	10
Weston-s-Mare	42·6	90	38·5	47·8	9·3	43·2	30·0	55·7	25·7	7·9	3·10	24	43·9	91	39·1	49·9	10·8	44·5	29·4	53·1	23·7	6·4	2·91	17	38·3	81	32·1	44·6	12·5	38·3	22·1	53·8	31·7	4·7	·81	10
Ilfracombe ..	45·3	89	41·6	49·5	7·9	45·6	33·8	56·5	22·7	7·4	3·22	20	45·9	92	41·9	50·3	8·4	46·1	34·8	54·0	19·2	6·8	3·51	21	40·9	85	36·7	44·8	8·1	40·7	27·8	54·0	26·2	5·0	·48	10
Bude	44·7	91	39·8	49·3	9·5	44·6	31·1	55·3	24·2	6·5	2·78	11	43·8	93	38·5	50·0	11·5	44·2	27·6	55·5	27·9	6·3	5·21	18	39·0	83	32·6	45·6	13·0	39·1	21·1	57·5	36·4	5·1	·83	7
Helston	45·8	88	41·3	51·7	10·4	46·5	33·9	56·1	22·2	7·8	4·01	24	45·4	88	40·0	51·7	11·7	45·9	32·5	55·2	22·7	7·6	5·79	20	40·9	78	33·9	47·2	13·3	40·5	24·7	58·0	33·3	5·5	2·44	15
Falmouth	46·3	86	42·5	49·8	7·3	46·2	35·5	55·0	19·5	7·8	4·85	22	45·4	88	40·3	50·0	9·7	45·1	32·8	55·3	22·5	6·4	7·23	18	41·3	74	35·1	46·0	10·9	40·6	25·6	56·2	30·6	5·4	2·51	14
Maker	44·4	87	41·3	48·2	6·9	44·8	33·7	52·6	18·9	7·6	3·08	22	43·8	91	39·4	48·9	9·5	44·1	32·2	55·2	23·0	6·9	3·89	19	38·4	80	33·1	46·2	13·1	39·7	23·2	58·5	35·3	5·2	1·24	13
Ashburton	43·1	92	38·6	47·9	9·3	43·3	31·5	54·4	22·9	7·4	7·83	21	43·7	91	37·7	50·1	12·4	43·9	28·7	56·4	27·7	5·9	10·10	17	39·5	76	31·3	45·4	14·1	38·3	22·2	58·0	35·8	4·7	2·71	12
Bridgetown....	43·7	89	38·8	50·1	11·3	44·5	26·4	55·1	28·7	8·2	5·92	25	42·5	91	36·0	51·6	15·6	43·8	25·3	56·8	31·5	6·8	7·67	19	39·2	78	30·4	47·4	17·0	38·9	17·9	57·5	39·6	4·8	1·86	12
Torquay	45·2	87	40·2	49·3	9·1	44·8	31·5	54·3	22·8	7·7	3·76	23	44·4	90	38·3	50·0	11·7	44·1	29·0	55·3	26·3	6·8	5·60	18	39·2	..	33·0	44·4	11·4	38·7	23·9	54·8	30·9	4·6	1·35	8
Babbacombe ..	43·8	88	39·3	49·0	9·7	44·2	31·8	55·9	24·1	7·8	3·86	22	43·9	89	37·7	50·6	12·9	44·1	29·2	57·6	28·4	7·1	5·68	18	39·6	75	31·7	45·8	14·1	38·8	23·3	55·9	32·6	5·2	1·37	10
Teignmouth, E.	44·4	85	40·2	49·1	8·9	44·7	31·0	54·5	23·5	7·5	3·29	23	43·3	89	38·0	50·1	12·1	44·0	29·3	56·4	27·1	6·9	6·22	16	38·7	75	33·1	46·5	13·4	39·8	25·0	58·0	33·0	4·8	1·40	10
Teignmouth, W.	43·9	91	39·4	49·7	10·3	44·6	32·8	56·4	23·6	7·7	3·27	23	43·9	91	38·2	51·4	13·2	44·8	29·9	57·6	27·7	6·2	5·75	17	40·1	..	32·2	47·9	15·7	40·0	23·1	58·4	35·3	4·7	1·42	13
Sidmouth	43·3	90	39·0	48·4	9·4	43·7	31·0	54·7	23·7	7·8	2·82	24	43·7	91	38·9	49·7	10·8	44·3	28·8	56·4	27·6	6·9	4·81	24	38·0	80	31·5	44·6	13·1	38·1	22·7	55·7	33·0	5·5	1·19	13
Brampford Spk.	42·3	90	37·7	47·7	10·0	42·7	29·0	55·9	26·9	7·6	3·05	24	42·3	94	36·5	49·3	12·8	42·9	28·2	54·8	26·6	6·7	6·87	18	37·5	81	30·7	45·1	14·4	37·9	22·5	54·8	32·3	5·5	1·30	14
Cullompton ..	42·3	88	37·3	48·3	11·0	42·8	26·6	55·6	29·0	7·7	3·57	22	42·7	91	36·4	49·9	13·5	43·2	26·0	56·1	30·1	6·9	6·08	19	37·9	78	29·8	45·2	15·4	37·5	18·0	55·8	37·8	5·2	1·53	11
Stowell	40·4	95	36·2	46·3	10·1	41·3	29·8	52·5	22·7	6·8	3·36	24	42·4	92	37·0	48·8	11·8	42·9	30·3	55·3	25·0	6·0	4·77	21	36·1	79	29·9	44·3	14·4	37·1	20·4	55·1	34·7	3·9	1·48	13
Weymouth	44·5	84	40·4	48·2	7·8	44·3	33·0	53·3	20·3	7·1	2·75	22	45·1	85	40·2	49·5	9·3	44·9	31·2	53·5	22·3	6·3	3·79	18	38·0	..	32·6	44·1	11·5	38·3	23·7	53·6	29·9	3·0	·71	10
Swanage	44·4	86	39·9	46·7	6·8	43·3	33·8	51·4	17·6	6·8	2·66	17	44·9	90	39·9	48·2	8·3	44·1	31·7	51·7	20·0	6·3	4·29	15	39·0	77	32·7	42·8	10·1	37·7	23·6	53·5	29·9	3·6	·94	8
Bournemouth	41·8	90	37·4	47·0	9·6	42·2	30·6	52·5	21·9	7·9	2·64	17	42·9	91	37·9	49·7	11·8	43·8	28·6	55·1	26·5	7·0	5·15	18	37·6	79	30·2	46·3	16·1	38·3	21·8	57·2	35·4	3·3	1·11	9
Southbourne ..	42·4	90	38·9	47·1	8·2	43·0	31·3	52·7	21·4	6·8	2·19	20	43·7	91	39·3	49·3	10·0	44·3	28·9	53·8	24·9	6·6	3·55	18	37·2	77	30·7	45·1	14·4	37·9	23·0	56·2	33·2	3·5	·72	8
Southampton..	40·8	91	36·3	46·8	10·5	41·6	27·3	52·6	25·3	6·8	3·10	23	42·8	93	36·7	49·3	12·6	43·0	28·1	54·7	26·6	7·7	4·29	22	37·3	78	28·6	45·6	17·0	37·1	20·4	55·7	35·3	4·8	·99	11
Portsmouth ..	42·5	88	38·5	47·2	8·7	42·9	30·0	54·7	24·7	6·2	2·83	24	43·4	91	39·1	50·1	11·0	44·6	31·5	57·1	25·6	6·8	3·90	20	37·3	79	31·4	45·8	14·4	38·6	24·4	57·3	32·9	3·9	·64	10
Ventnor	44·2	86	41·2	48·1	6·9	44·7	34·3	52·5	18·2	6·8	2·27	21	45·1	90	41·0	50·5	9·5	45·7	34·8	54·4	19·6	6·7	3·42	19	39·4	75	33·5	46·2	12·7	39·9	25·1	55·3	30·2	4·6	·66	10
Worthing	42·5	86	38·3	46·5	8·2	42·4	30·5	52·2	21·7	6·4	2·42	22	43·5	90	38·7	48·7	10·0	43·7	32·6	56·2	23·6	6·2	3·16	20	37·7	79	31·2	45·1	13·9	38·2	23·3	53·7	30·4	4·0	·67	10
Hastings	42·2	88	39·5	46·3	6·8	42·9	32·2	53·5	21·3	6·8	2·00	19	43·0	91	39·5	47·9	8·4	43·7	33·9	52·6	18·7	7·0	3·75	20	37·5	80	32·5	43·5	11·0	38·0	24·2	52·3	28·1	5·2	1·05	13
Ramsgate	41·1	88	37·5	45·9	8·4	41·7	29·9	55·2	25·3	6·2	1·14	16	42·0	88	37·8	47·7	9·9	42·8	30·9	53·8	22·9	7·0	2·04	16	36·7	..	32·0	42·1	10·1	37·0	24·8	52·7	27·9	6·4	1·31	16
Margate	40·8	89	37·5	45·6	8·1	41·6	30·2	55·6	25·4	6·4	1·44	20	41·8	89	38·1	47·9	9·8	43·0	33·1	53·6	20·5	6·8	2·25	16	36·5	81	32·2	42·0	9·8	37·1	24·2	53·4	29·2	6·3	1·12	17
Southend	40·6	92	37·7	44·4	6·7	41·1	30·8	52·8	22·0	6·9	1·11	19	42·0	93	38·1	47·3	9·2	42·7	32·0	53·6	21·6	7·6	1·93	15	36·5	86	31·3	42·1	10·8	36·7	23·0	50·5	27·5	6·2	·65	11

Abstract of Climatological Observations for the Quarter ending MARCH 31st, 1883.

Station.	JANUARY.												FEBRUARY.												MARCH.											
	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.						Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.						Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.								Means.				Extremes in Month.								Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.	
Downside	39·8	94	35·6	44·9	9·3	40·3	28·1	53·4	25·3	7·9	4·56	25	41·3	94	37·0	47·5	10·5	42·2	28·5	53·0	24·5	6·8	5·40	19	35·4	83	28·5	42·7	14·2	35·6	18·1	53·8	35·7	4·7	1·32	12
Marlborough ..	38·9	94	36·1	44·6	8·5	40·4	28·3	53·2	24·9	7·6	3·79	24	41·1	92	36·4	48·1	11·7	42·2	30·9	52·7	21·8	7·9	5·50	19	35·2	80	27·6	43·1	15·5	35·4	18·5	55·2	36·7	4·7	1·29	10
Strathfield Turg.	40·2	90	35·5	46·2	10·7	40·9	25·8	54·6	28·8	6·8	2·39	22	42·7	91	36·1	49·6	13·5	42·8	28·7	55·8	27·1	7·5	4·42	16	36·0	83	28·2	45·3	17·1	36·8	13·8	56·2	42·4	4·5	·77	5
Harestock	40·4	84	36·1	45·6	9·5	40·9	28·5	52·9	24·4	6·8	2·74	21	41·8	86	36·4	48·2	11·8	42·3	30·1	53·0	22·9	7·9	5·05	17	36·0	72	28·7	43·3	14·6	36·0	19·2	54·1	34·9	4·5	1·16	7
Swarraton	39·7	92	36·0	45·7	9·7	40·9	27·6	52·8	25·2	6·4	2·90	20	41·2	92	36·1	48·2	12·1	42·1	27·8	52·5	24·7	8·0	5·61	16	34·9	..	27·9	43·1	15·2	35·5	13·1	53·5	40·4	4·6	1·21	6
Tunb. Wells ..	39·1	95	35·6	44·1	8·5	39·9	27·8	52·1	24·3	6·4	2·84	21	40·7	96	35·9	46·8	10·9	41·3	31·2	54·0	22·8	7·3	4·65	19	34·5	..	29·4	41·0	11·6	35·2	20·7	53·1	32·4	5·6	·91	11
Tunbridge	39·9	91	36·3	45·8	9·5	41·1	26·1	54·7	28·6	6·6	2·18	18	41·8	90	36·5	48·5	12·0	42·5	27·2	54·3	27·1	7·3	4·24	18	37·0	78	30·6	43·4	12·8	37·0	22·0	55·6	33·6	5·3	1·05	9
Beddington....	40·1	88	36·1	45·7	9·6	40·9	27·9	54·3	26·4	6·5	2·06	17	41·8	87	36·8	48·5	11·7	42·7	30·2	54·0	23·8	7·0	3·94	15	35·1	78	29·4	42·5	13·1	35·9	19·1	54·3	35·2	5·6	·89	8
Croydon	40·1	88	37·1	45·8	8·7	41·5	26·7	55·1	28·4	6·9	2·04	20	42·0	88	37·8	48·6	10·8	43·2	28·7	53·8	25·1	7·8	4·32	16	35·1	79	30·1	42·7	12·6	36·4	20·9	55·3	34·4	6·5	·97	11
South Norwood.	40·1	90	36·4	45·9	9·5	41·2	29·1	57·1	28·0	6·3	1·50	17	41·7	89	36·8	48·9	12·1	42·8	29·7	55·4	25·7	7·3	3·15	16	35·4	..	29·7	43·1	13·4	36·4	20·1	56·6	36·5	7·1	·76	9
Norwood	40·3	90	37·1	45·6	8·5	41·4	28·1	54·7	26·6	6·7	1·97	21	41·7	89	37·6	48·6	11·0	43·1	32·7	54·3	21·6	7·3	3·22	16	35·4	79	30·1	43·2	13·1	36·6	19·9	53·6	33·7	5·3	·78	12
Isleworth	40·6	90	36·3	45·9	9·6	41·1	28·0	54·5	26·5	6·4	2·48	22	42·2	90	36·9	49·5	12·6	43·2	30·0	55·9	25·9	7·2	3·44	18	36·2	79	29·9	44·2	14·3	37·1	21·2	55·4	34·2	5·3	·94	11
London, Old St.	41·9	86	38·3	46·7	8·4	42·5	32·0	55·6	23·6	7·3	2·13	24	43·0	86	38·7	49·1	10·4	43·9	33·1	55·2	22·1	7·8	3·61	20	36·6	77	32·0	43·6	11·6	37·8	24·1	54·7	30·6	6·3	·91	16
Regent's Park..	40·9	86	37·3	45·7	8·4	41·5	29·0	55·0	26·0	..	1·79	20	41·9	86	37·4	48·8	11·4	43·1	31·8	56·0	24·2	..	3·50	17	35·5	79	30·4	43·5	13·1	37·0	20·0	55·0	35·0	..	·96	11
Finchley.....	39·4	92	35·4	44·3	8·9	39·9	26·1	53·6	27·5	8·3	2·27	22	40·9	91	35·4	47·4	12·0	41·4	27·2	53·8	26·6	8·1	3·44	20	35·1	..	28·4	42·1	13·7	35·2	19·7	53·2	33·5	6·0	·77	13
Watford	39·6	90	35·9	44·9	9·0	40·4	27·5	54·3	26·8	7·1	2·77	21	41·6	90	35·8	48·3	12·5	42·1	28·0	54·9	26·9	7·3	4·07	17	35·5	83	29·6	42·9	13·3	36·2	20·5	54·5	34·0	5·3	1·00	11
Throcking	37·9	94	34·4	43·1	8·7	38·8	26·1	52·2	26·1	6·8	1·75	22	39·6	93	35·1	47·0	11·9	41·0	28·9	54·5	25·6	7·1	3·55	19	33·2	91	27·7	41·1	13·4	34·4	17·5	55·5	38·0	5·5	·64	10
Aspley Guise ..	39·2	95	35·2	43·8	8·6	39·5	26·1	53·1	27·0	7·2	2·34	22	41·6	92	36·2	47·9	11·7	42·1	29·5	56·2	26·7	7·1	3·12	17	35·8	84	28·1	42·4	14·3	35·2	18·4	56·1	37·7	5·4	·90	10
Hillington	38·1	91	32·9	43·8	10·9	38·4	25·2	54·5	29·3	8·0	1·84	14	41·1	90	35·1	48·3	13·2	41·7	29·1	55·7	26·6	7·4	3·01	15	36·3	80	28·2	42·6	14·4	35·4	13·6	53·7	40·1	6·7	1·80	19
Cromer	38·5	91	33·8	44·0	10·2	38·9	25·3	53·9	28·6	6·7	2·05	11	41·6	90	34·6	47·4	12·8	41·0	28·8	55·9	27·1	5·7	2·67	15	35·9	..	30·4	40·4	10·0	35·4	19·8	51·9	32·1	7·3	1·89	18
Somerleyton ..	39·0	88	34·6	44·9	10·3	39·8	26·3	53·9	27·6	5·7	1·85	18	40·9	88	34·6	48·3	13·7	41·4	28·1	55·1	27·0	6·1	2·31	17	35·4	85	30·1	41·3	11·2	35·7	21·6	54·9	33·3	7·0	1·64	20
Lowestoft	39·9	87	36·1	44·3	8·2	40·2	29·6	54·4	24·8	6·2	1·74	17	41·3	88	36·9	47·4	10·5	42·2	31·6	53·7	22·1	7·0	2·17	15	35·7	86	30·9	41·3	10·4	36·1	22·6	54·0	31·4	7·1	1·46	18
Guernsey	44·4	87	41·6	49·5	7·9	45·6	34·1	57·1	23·0	6·6	3·21	20	45·2	90	41·4	50·3	8·9	45·8	35·1	53·4	18·3	5·6	3·89	21	40·4	78	35·9	46·5	10·6	41·2	29·1	54·4	25·3	6·8	2·29	17
Dublin	42·3	86	38·7	47·7	9·0	43·2	30·4	55·7	25·3	6·2	2·68	20	42·8	85	38·9	48·3	9·4	43·6	29·1	57·9	28·8	6·1	3·75	17	37·9	79	33·7	44·3	10·6	39·0	25·4	51·5	26·1	5·6	1·06	12
Killarney	45·5	85	39·0	50·0	11·0	44·5	28·4	55·3	26·9	8·2	11·83	26	43·9	84	36·9	49·9	13·0	43·4	27·4	56·8	29·4	7·6	14·38	22	39·6	82	32·1	46·2	14·1	39·2	18·8	54·7	35·9	6·0	3·28	16

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WEATHER OVER ENGLAND

FOR THE QUARTER ENDING JUNE 30TH, 1883.

THE fine bright weather which set in at the end of March continued during the first part of April. This was followed by a period of cold, wet, and ungenial weather, which lasted till about the 12th of May. Bright, warm, and dry weather then prevailed till the beginning of June, which caused vegetation to advance rapidly, so that all the crops were greatly improved in appearance. June was rather cloudy, cold, and wet, but was dry in the South-east. The 29th and 30th were very warm, especially in the South-east.

AIR TEMPERATURE was about the average.

In *April* the mean temperature (mean of the maximum and minimum) was 46°·3, and varied from 48°·8 at Ilfracombe, 48°·7 at London, 48°·4 at Ross, 48°·0 at Cardiff, 47°·9 at Ventnor, and 47°·8 at Burghill and Teignmouth, to 42°·3 at Alston, 43°·7 at Buxton, 43°·9 at Stapleton, 44°·2 at Cramlington, 44°·4 at Blackpool, 44°·5 at Rounton, and 44°·7 at Scarborough. The weather was fine and bright during the early part of the month, but cold later on, especially on the 23rd. The maximum temperature occurred generally from the 3rd to the 5th, the highest readings being :—on the 3rd, 68°·5 at Tunbridge, and 67°·7 at Portsmouth ; on the 4th, 66°·9 at Ross, and 66°·5 at Hodsock; and on the 5th, 68°·1 at Throcking, 67°·5 at Hillington and Strathfield Turgiss, and 67°·4 at Norwood. The minimum temperature took place on various dates, but mostly on the 1st, 9th, and 11th. The lowest readings were:—on the 1st, 22°·0 at Leaton and Oakamoor, 23°·3 at Hodsock, and 24°·3 at Hillington; on the 6th, 23°·0 at Buxton and 23°·1 at Alston; and on the 11th, 24°·3 at Swarraton, and 25°·3 at Tunbridge. The mean daily range of temperature was 16°·5.

In *May* the mean temperature was 51°·0, and varied from 54°·3 at London, 53°·8 at Portsmouth, 53°·6 at Southend, 53°·0 at Tunbridge, 52°·9 at Isleworth and Norwood, and 52°·6 at Cardiff and Teignmouth, to 44°·6 at Alston, 47°·0 at Stapleton, 47°·3 at Cramlington, 47°·6 at Buxton, 48°·0 at Rounton, and 48°·2 at Alnwick. The weather was dull, cold, and wet from

Abstract of Climatological Observations for the Quarter ending MARCH 31st, 1883.

Station.	JANUARY.												FEBRUARY.												MARCH.											
	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.						Mean Amount of Cloud at 9 a.m.	Rain.			Means at 9 a.m.		Temperature.						Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.								Means.				Extremes in Month.								Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.	
Downside	39·8	94	35·6	44·9	9·3	40·3	28·1	53·4	25·3	7·9	4·56	25	41·3	94	37·0	47·5	10·5	42·2	28·5	53·0	24·5	6·8	5·40	19	35·4	83	28·5	42·7	14·2	35·6	18·1	53·8	35·7	4·7	1·32	12
Marlborough ..	38·9	94	36·1	44·6	8·5	40·4	28·3	53·2	24·9	7·6	3·79	24	41·1	92	36·4	48·1	11·7	42·2	30·9	52·7	21·8	7·9	5·50	19	35·2	80	27·6	43·1	15·5	35·4	18·5	55·2	36·7	4·7	1·29	10
Strathfield Turg.	40·2	90	35·5	46·2	10·7	40·9	25·8	54·6	28·8	6·8	2·39	22	42·7	91	36·1	49·6	13·5	42·8	28·7	55·8	27·1	7·5	4·42	16	36·0	83	28·2	45·3	17·1	36·8	13·8	56·2	42·4	4·5	·77	5
Harestock	40·4	84	36·1	45·6	9·5	40·9	28·5	52·9	24·4	6·8	2·74	21	41·8	86	36·4	48·2	11·8	42·3	30·1	53·0	22·9	7·9	5·05	17	36·0	72	28·7	43·3	14·6	36·0	19·2	54·1	34·9	4·5	1·16	7
Swarraton	39·7	92	36·0	45·7	9·7	40·9	27·6	52·8	25·2	6·4	2·90	20	41·2	92	36·1	48·2	12·1	42·1	27·8	52·5	24·7	8·0	5·61	16	34·9	..	27·9	43·1	15·2	35·5	13·1	53·5	40·4	4·6	1·21	6
Tunb. Wells ..	39·1	95	35·6	44·1	8·5	39·9	27·8	52·1	24·3	6·4	2·84	21	40·7	96	35·9	46·8	10·9	41·3	31·2	54·0	22·8	7·3	4·65	19	34·5	..	29·4	41·0	11·6	35·2	20·7	53·1	32·4	5·6	·91	11
Tunbridge	39·9	91	36·3	45·8	9·5	41·1	26·1	54·7	28·6	6·6	2·18	18	41·8	90	36·5	48·5	12·0	42·5	27·2	54·3	27·1	7·3	4·24	18	37·0	78	30·6	43·4	12·8	37·0	22·0	55·6	33·6	5·3	1·05	9
Beddington....	40·1	88	36·1	45·7	9·6	40·9	27·9	54·3	26·4	6·5	2·06	17	41·8	87	36·8	48·5	11·7	42·7	30·2	54·0	23·8	7·0	3·94	15	35·1	78	29·4	42·5	13·1	35·9	19·1	54·3	35·2	5·6	·89	8
Croydon	40·1	88	37·1	45·8	8·7	41·5	26·7	55·1	28·4	6·9	2·04	20	42·0	88	37·8	48·6	10·8	43·2	28·7	53·8	25·1	7·8	4·32	16	35·1	79	30·1	42·7	12·6	36·4	20·9	55·3	34·4	6·5	·97	11
South Norwood.	40·1	90	36·4	45·9	9·5	41·2	29·1	57·1	28·0	6·3	1·50	17	41·7	89	36·8	48·9	12·1	42·8	29·7	55·4	25·7	7·3	3·15	16	35·4	..	29·7	43·1	13·4	36·4	20·1	56·6	36·5	7·1	·76	9
Norwood	40·3	90	37·1	45·6	8·5	41·4	28·1	54·7	26·6	6·7	1·97	21	41·7	89	37·6	48·6	11·0	43·1	32·7	54·3	21·6	7·3	3·22	16	35·4	79	30·1	43·2	13·1	36·6	19·9	53·6	33·7	5·3	·78	12
Isleworth	40·6	90	36·3	45·9	9·6	41·1	28·0	54·5	26·5	6·4	2·48	22	42·2	90	36·9	49·5	12·6	43·2	30·0	55·9	25·9	7·2	3·44	18	36·2	79	29·9	44·2	14·3	37·1	21·2	55·4	34·2	5·3	·94	11
London, Old St.	41·9	86	38·3	46·7	8·4	42·5	32·0	55·6	23·6	7·3	2·13	24	43·0	86	38·7	49·1	10·4	43·9	33·1	55·2	22·1	7·8	3·61	20	36·6	77	32·0	43·6	11·6	37·8	24·1	54·7	30·6	6·3	·91	16
Regent's Park..	40·9	86	37·3	45·7	8·4	41·5	29·0	55·0	26·0	..	1·79	20	41·9	86	37·4	48·8	11·4	43·1	31·8	56·0	24·2	..	3·50	17	35·5	79	30·4	43·5	13·1	37·0	20·0	55·0	35·0	..	·96	11
Finchley.....	39·4	92	35·4	44·3	8·9	39·9	26·1	53·6	27·5	8·3	2·27	22	40·9	91	35·4	47·4	12·0	41·4	27·2	53·8	26·6	8·1	3·44	20	35·1	..	28·4	42·1	13·7	35·2	19·7	53·2	33·5	6·0	·77	13
Watford	39·6	90	35·9	44·9	9·0	40·4	27·5	54·3	26·8	7·1	2·77	21	41·6	90	35·8	48·3	12·5	42·1	28·0	54·9	26·9	7·3	4·07	17	35·5	83	29·6	42·9	13·3	36·2	20·5	54·5	34·0	5·3	1·00	11
Throcking	37·9	94	34·4	43·1	8·7	38·8	26·1	52·2	26·1	6·8	1·75	22	39·6	93	35·1	47·0	11·9	41·0	28·9	54·5	25·6	7·1	3·55	19	33·2	91	27·7	41·1	13·4	34·4	17·5	55·5	38·0	5·5	·64	10
Aspley Guise ..	39·2	95	35·2	43·8	8·6	39·5	26·1	53·1	27·0	7·2	2·34	22	41·6	92	36·2	47·9	11·7	42·1	29·5	56·2	26·7	7·1	3·12	17	35·8	84	28·1	42·4	14·3	35·2	18·4	56·1	37·7	5·4	·90	10
Hillington	38·1	91	32·9	43·8	10·9	38·4	25·2	54·5	29·3	8·0	1·84	14	41·1	90	35·1	48·3	13·2	41·7	29·1	55·7	26·6	7·4	3·01	15	36·3	80	28·2	42·6	14·4	35·4	13·6	53·7	40·1	6·7	1·80	19
Cromer	38·5	91	33·8	44·0	10·2	38·9	25·3	53·9	28·6	6·7	2·05	11	41·6	90	34·6	47·4	12·8	41·0	28·8	55·9	27·1	5·7	2·67	15	35·9	..	30·4	40·4	10·0	35·4	19·8	51·9	32·1	7·3	1·89	18
Somerleyton ..	39·0	88	34·6	44·9	10·3	39·8	26·3	53·9	27·6	5·7	1·85	18	40·9	88	34·6	48·3	13·7	41·4	28·1	55·1	27·0	6·1	2·31	17	35·4	85	30·1	41·3	11·2	35·7	21·6	54·9	33·3	7·0	1·64	20
Lowestoft	39·9	87	36·1	44·3	8·2	40·2	29·6	54·4	24·8	6·2	1·74	17	41·3	88	36·9	47·4	10·5	42·2	31·6	53·7	22·1	7·0	2·17	15	35·7	86	30·9	41·3	10·4	36·1	22·6	54·0	31·4	7·1	1·46	18
Guernsey	44·4	87	41·6	49·5	7·9	45·6	34·1	57·1	23·0	6·6	3·21	20	45·2	90	41·4	50·3	8·9	45·8	35·1	53·4	18·3	5·6	3·89	21	40·4	78	35·9	46·5	10·6	41·2	29·1	54·4	25·3	6·8	2·29	17
Dublin	42·3	86	38·7	47·7	9·0	43·2	30·4	55·7	25·3	6·2	2·68	20	42·8	85	38·9	48·3	9·4	43·6	29·1	57·9	28·8	6·1	3·75	17	37·9	79	33·7	44·3	10·6	39·0	25·4	51·5	26·1	5·6	1·06	12
Killarney	45·5	85	39·0	50·0	11·0	44·5	28·4	55·3	26·9	8·2	11·83	26	43·9	84	36·9	49·9	13·0	43·4	27·4	56·8	29·4	7·6	14·38	22	39·6	82	32·1	46·2	14·1	39·2	18·8	54·7	35·9	6·0	3·28	16

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WITH

REMARKS ON THE WEATHER

FOR THE QUARTER ENDING

JUNE 30TH, 1883.

BY

WILLIAM MARRIOTT, F.M.S.,

Assistant-Secretary.

No. X.

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TEMPERATURE OF THE SOIL AT 9 A.M.

Station.	Depth below the Surface.	April.			May.			June.		
		Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.
		°	°	°	°	°	°	°	°	°
Aspley Guise	3 ins.	46·1	51·1	38·8	54·4	62·4	43·8	61·6	68·9	56·9
Babbacombe	6 ins.	49·0	53·7	43·1	54·6	59·8	48·0	60·2	63·8	58·4
Marlborough	6 ,,	46·2	51·0	39·6	53·6	61·2	44·3	60·9	66·0	56·9
Croydon	6 ,,	45·3	51·0	38·3	53·4	61·0	43·5	60·8	68·3	57·0
Aspley Guise	6 ,,	45·9	50·2	39·2	53·6	60·9	44·1	60·6	67·0	57·1
Alnwick	1 ft.	45·4	49·0	40·0	51·2	60·0	44·0	58·9	62·5	55·0
Rounton	1 ,,	43·6	46·0	38·0	48·9	54·0	44·0	55·8	59·5	53·0
Hodsock	1 ,,	45·5	48·4	39·1	51·6	58·0	45·8	57·4	61·2	54·8
Oakamoor	1 ,,	42·4	46·0	39·3	50·2	56·7	40·0	..	..	..
Strelley	1 ,,	44·1	46·5	38·2	50·1	56·6	44·2	56·5	60·4	54·2
Marlborough	1 ,,	47·0	50·6	41·2	53·8	60·9	46·4	61·2	65·0	58·9
Cardiff	1 ,,	46·4	50·9	41·5	51·6	56·6	45·9	57·9	61·4	55·8
Babbacombe	1 ,,	49·7	53·1	44·3	55·0	59·8	50·0	60·5	63·3	59·1
Cullompton	1 ,,	47·2	49·3	42·7	52·6	59·4	46·5	59·5	62·0	57·8
Southampton	1 ,,	48·1	52·4	43·2	54·5	60·0	48·9	61·0	64·0	59·0
Worthing	1 ,,	48·0	52·5	43·4	55·4	60·4	49·8	62·0	65·9	59·4
Harestock	1 ,,	44·7	48·7	40·5	50·7	56·2	45·1	57·2	60·9	54·8
Croydon	1 ,,	45·7	51·0	40·0	53·4	60·2	45·5	60·5	65·7	57·5
Norwood	1 ,,	45·2	50·1	39·4	52·5	58·0	46·0	59·2	64·4	56·6
Isleworth	1 ,,	46·6	52·6	41·2	54·2	60·8	47·2	60·3	65·7	57·3
Regent's Park	1 ,,	44·8	49·5	38·5	52·8	60·0	46·0	59·9	64·5	56·5
Aspley Guise	1 ,,	45·9	49·8	39·8	53·4	60·5	45·2	60·4	65·9	57·6
Lowestoft	1 ,,	46·0	49·7	40·0	52·0	58·1	45·0	58·7	63·6	55·9
Marlborough	1½ ft.	46·7	49·9	41·6	53·1	59·0	47·5	60·4	62·7	58·9
Alnwick	2 ft.	47·3	49·5	42·5	52·5	58·0	49·0	59·1	61·5	57·0
Oakamoor	2 ,,	41·7	45·2	39·1	49·8	56·8	40·7	..	..	..
Marlborough	2 ,,	46·0	48·2	41·5	51·7	56·3	47·8	58·6	60·0	56·6
Harestock	2 ,,	43·6	46·2	39·6	48·7	52·5	45·6	54·6	56·3	52·5
Isleworth	2 ,,	46·1	49·7	41·7	53·0	57·9	48·3	59·1	62·1	57·9
Aspley Guise	2 ,,	46·1	49·1	41·3	52·7	58·6	47·2	59·6	62·7	57·8
Lowestoft	2 ,,	45·2	48·8	39·7	51·2	56·5	46·5	58·4	61·7	56·5
Cardiff	4 ft.	44·7	46·0	42·6	47·8	50·3	46·3	52·2	53·5	50·5
Harestock	4 ,,	43·4	44·7	41·2	46·9	49·8	44·9	51·9	53·4	49·9
Regent's Park	4 ,,	43·0	45·4	40·3	48·3	52·0	45·5	55·1	57·8	52·4
Aspley Guise	4 ,,	44·7	46·7	41·1	49·7	54·0	47·0	56·0	57·6	54·0
Lowestoft	4 ,,	44·4	46·3	40·1	48·9	53·0	46·2	54·8	57·4	53·0

DURATION OF BRIGHT SUNSHINE.

Station.	Total amount.			Greatest amount on one day.			No. of days on which no Sunshine was registered.		
	April.	May.	June.	April.	May.	June.	April.	May.	June.
	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.			
Blackpool	164	224	202	12·8	15·4	15·5	3	1	1
Hodsock	134	175	153	11·2	13·7	14·7	3	4	4
Buxton	129	177	157	10·3	13·3	15·3	4	3	2
Strelley	142	187	160	11·2	13·8	14·2	4	4	4
Llandudno	140	214	183	12·8	14·6	14·3	2	2	1
Churchstoke	144	153	172	10·4	12·6	13·8	4	4	4
Marlborough	173	179	189	11·4	14·2	14·8	1	5	0
Cullompton	174	155	169	12·0	13·3	13·3	4	2	1
Southbourne	167	216	216	13·0	14·1	13·8	2	5	1
St. Leonard's	196	249	249	12·0	14·7	15·1	5	5	2
Harestock	167	213	207	10·9	13·9	13·8	1	6	0
Croydon	145	187	179	10·6	13·8	13·5	4	3	2
Kew	156	206	186	10·8	14·8	14·8	3	4	1
Greenwich	133	178	164	10·3	13·7	13·6	6	6	1
London, Bunhill Row	104	162	149	8·5	13·5	13·8	4	1	3
Aspley Guise	137	171	181	10·2	13·8	13·8	5	6	2
Hillington	155	214	208	12·1	13·4	14·0	5	3	1

...SUNSHINE, AS RECORDED IN LONDON AND THE SUBURBS.

Date.	APRIL.											MAY.											JUNE.										
	Max. Temp.				Min. Temp.				Sunshine.			Max. Temp.				Min. Temp.				Sunshine.			Max. Temp.				Min. Temp.				Sunshine.		
	Old Street.	Regent's Park.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Bunhill Row.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Bunhill Row.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Bunhill Row.	Greenwich.	Kew.
	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.	°	°	°	°	°	°	°	°	hrs.	hrs	hrs.
1	53·5	53·0	55·4	55·3	34·7	34·0	29·5	29·8	3·4	9·4	8·1	62·3	60·5	61·0	59·3	45·0	44·4	41·7	42·2	7·1	8·3	7·6	69·4	71·5	74·4	70·7	49·1	43·0	40·8	41·1	3·4	6·3	6·5
2	61·4	63·0	64·1	62·6	33·5	32·0	28·4	32·4	5·3	9·8	9·9	49·2	49·5	49·8	48·0	42·5	41·2	40·3	39·5	3·1	0·3	0·3	74·1	73·8	74·3	71·3	52·4	48·0	47·6	47·6	8·8	7·0	9·0
3	64·5	66·0	66·3	63·6	41·2	38·0	36·4	37·3	1·3	5·9	9·4	52·2	51·3	55·9	51·2	39·2	38·0	35·5	36·2	3·6	4·0	4·7	75·1	72·0	71·9	69·7	51·2	49·5	47·6	50·1	10·0	13·6	14·8
4	62·2	63·5	64·3	63·6	47·2	42·0	43·6	41·3	1·4	2·2	4·4	49·8	50·5	52·3	48·0	32·8	31·0	30·3	31·8	2·6	3·9	8·2	77·2	75·0	74·1	72·2	48·4	46·2	46·1	47·6	13·8	9·2	10·1
5	65·9	66·8	69·1	64·9	45·5	39·0	41·6	36·6	5·0	7·8	7·3	56·6	56·3	56·1	53·4	32·1	31·0	30·8	32·1	8·0	6·5	7·4	75·5	73·0	75·0	70·3	49·0	48·0	48·4	47·9	12·0	12·9	13·8
6	59·9	58·6	58·1	56·4	42·2	41·0	37·6	40·0	7·9	9·2	9·3	66·5	66·8	67·0	64·1	40·2	39·0	41·5	42·4	5·0	6·4	5·6	69·9	68·5	68·3	66·7	46·2	44·5	44·8	45·0	9·0	11·3	11·5
7	55·2	53·8	53·9	53·3	34·6	33·0	33·1	33·9	6·3	7·7	6·1	56·4	57·0	59·4	58·4	43·6	42·5	40·0	41·6	1·3	2·4	3·6	58·6	64·0	56·1	53·9	50·1	48·0	47·7	47·6	..	..	..
8	55·8	53·8	54·5	52·3	38·0	36·0	35·0	35·5	8·5	9·6	7·2	49·5	49·0	50·1	48·0	44·5	41·0	38·8	39·0	..	..	..	66·2	65·0	68·1	67·2	50·7	49·2	47·7	47·9	..	4·6	3·7
9	57·4	61·0	58·1	58·4	34·6	30·4	28·2	31·3	1·1	7·8	9·5	47·4	47·2	47·0	47·2	44·2	43·0	41·4	41·4	0·5	..	..	73·6	72·4	73·4	68·9	50·4	45·8	45·7	47·1	8·1	6·1	2·4
10	52·6	54·6	54·4	50·2	40·7	39·0	35·3	35·7	4·5	5·8	6·3	47·3	47·6	47·3	48·0	37·9	36·3	38·1	36·0	2·6	0·2	1·2	71·4	69·0	73·1	67·3	51·0	49·0	47·6	48·9	2·5	9·0	5·5
11	56·6	57·8	57·0	57·3	36·0	33·4	28·7	32·7	0·2	..	1·3	52·6	52·0	55·5	51·1	38·2	36·0	35·7	37·0	3·0	6·0	7·9	60·2	59·0	59·0	57·3	50·4	49·5	47·5	47·1	2·8	0·2	0·2
12	56·6	58·0	59·3	54·6	40·1	39·0	36·7	39·3	2·3	2·9	1·7	57·6	57·2	56·4	57·0	38·9	46·0	41·1	42·2	3·1	..	..	73·1	74·4	76·8	71·0	46·3	42·0	41·5	43·7	4·4	5·4	11·0
13	48·2	47·0	54·9	48·4	39·2	39·5	36·7	41·0	..	..	..	68·6	68·0	69·3	68·1	51·7	50·0	50·7	51·4	8·2	9·9	11·3	75·9	75·5	75·5	74·6	57·1	52·0	54·3	52·4	7·8	5·3	6·3
14	52·9	52·8	50·4	56·2	41·3	39·2	34·9	40·5	..	..	0·6	60·7	65·0	66·1	61·4	53·7	52·0	50·6	51·4	1·5	..	0·1	75·6	76·0	77·2	73·5	60·1	55·0	54·6	53·7		6·4	9·7
15	59·9	59·5	61·6	57·7	42·2	40·0	39·3	39·3	3·4	2·0	3·1	67·6	67·0	70·4	65·0	52·0	50·0	50·5	51·3	6·5	4·1	4·3	61·5	60·5	63·6	60·7	55·7	53·0	46·6	47·6	0·3	0·3	0·1
16	51·9	57·6	58·4	55·1	42·5	40·8	39·6	40·4	6·8	6·4	9·5	74·4	73·4	74·3	71·0	51·4	48·9	47·7	50·6	13·0	12·7	13·3	62·3	62·0	64·3	60·6	45·0	43·0	44·1	44·8	8·0	3·9	5·0
17	55·1	54·8	57·1	55·3	40·0	37·0	35·0	35·4	5·3	9·3	10·8	66·9	66·3	66·5	65·3	48·0	46·0	43·8	46·0	6·0	10·6	9·4	60·6	61·0	63·4	61·1	44·0	43·0	40·4	41·6	3·8	7·3	8·8
18	65·9	65·0	66·0	64·1	45·5	44·0	41·5	41·3	1·3	1·8	5·7	63·0	62·6	65·0	60·3	52·3	48·0	46·7	47·3	3·4	6·9	9·4	66·4	67·0	68·2	63·9	49·4	47·0	46·4	47·8	2·9	4·0	4·0
19	50·4	48·5	49·0	49·3	46·5	44·0	44·9	44·2	..	..	..	60·9	61·6	62·9	59·7	50·3	48·5	49·0	49·4	2·2	1·4	0·9	63·4	66·0	65·2	63·7	50·2	47·8	48·6	48·0	1·0	1·0	3·9
20	57·1	58·0	59·2	56·2	44·6	43·0	43·1	43·5	3·8	0·9	2·5	56·7	57·0	56·1	58·4	49·2	47·7	46·1	49·0	3·0	..	0·3	60·0	61·0	62·9	63·8	52·2	49·5	47·7	49·9	1·7	1·4	2·0
21	55·9	49·0	53·0	49·6	42·9	42·0	38·4	39·0	5·4	2·1	1·9	65·1	66·0	69·1	66·2	45·0	42·0	39·5	43·6	8·3	10·4	9·6	62·9	64·5	67·6	63·3	53·2	56·5	50·7	52·0	0·5	2·9	2·1
22	51·9	51·0	52·7	50·0	38·5	37·0	37·6	37·8	6·4	8·4	8·0	71·4	73·0	74·1	71·0	49·2	43·0	42·4	42·0	13·5	12·9	13·8	66·1	67·0	69·4	65·9	51·0	49·0	49·8	49·9	2·8	1·6	3·6
23	45·5	46·5	43·8	44·1	37·8	36·0	32·6	32·7	2·4	2·0	4·0	76·8	76·0	78·4	74·7	52·7	49·0	49·0	47·7	13·5	13·6	14·7	71·4	72·8	74·4	69·8	50·1	52·5	52·3	52·2	5·0	7·8	6·6
24	50·9	56·0	51·8	49·3	32·2	31·0	31·7	32·0	1·6	0·9	1·6	77·7	78·0	81·0	76·0	52·7	49·7	49·0	48·5	10·0	13·7	14·8	73·4	74·5	76·2	72·8	58·8	58·0	57·6	58·6	7·0	5·0	6·3
25	52·4	53·7	56·4	53·6	40·3	39·6	36·4	37·9	4·9	3·9	6·9	72·3	72·0	73·9	73·6	53·5	49·0	47·6	49·4	1·6	6·4	9·4	74·4	74·5	78·6	73·6	59·7	57·0	53·2	54·5	3·1	3·0	7·3
26	59·4	59·0	60·1	59·7	36·2	35·0	32·6	34·2	6·5	10·3	10·3	60·5	59·8	59·9	58·9	55·3	50·5	50·6	50·0	0·2	..	..	62·3	64·0	67·2	63·4	53·4	52·0	50·4	52·1	4·2	3·6	3·4
27	58·2	58·0	58·1	58·6	47·7	44·0	46·5	48·0	..	..	..	64·2	65·5	69·0	65·0	49·2	47·0	47·8	48·0	6·6	6·8	9·2	63·9	65·0	65·4	64·5	52·7	50·0	49·3	51·2	0·6	2·5	2·0
28	57·5	58·0	59·4	57·2	50·2	48·8	48·9	48·5	0·3	..	0·2	67·4	67·8	71·0	66·1	49·7	44·0	44·1	43·7	9·5	13·1	13·4	72·9	73·5	71·2	69·0	57·7	56·0	56·5	57·3	6·7	3·0	3·6
29	59·1	59·0	59·2	61·4	48·2	47·0	47·7	48·6	5·1	0·4	1·1	66·9	68·3	73·5	65·4	52·2	49·0	48·7	47·3	3·0	3·8	3·3	82·9	83·0	84·8	83·4	57·7	56·0	54·5	54·6	8·3	10·7	11·5
30	59·6	61·0	61·4	59·1	43·8	42·0	40·6	41·8	3·6	6·5	8·9	64·0	67·0	63·2	66·5	49·7	47·0	47·9	46·8	3·0	3·2	9·3	80·0	80·8	83·5	78·6	64·5	61·0	56·0	57·7	10·6	8·2	11·5
31	..	..	..	..	..	..	..	..	..	..	..	69·2	70·5	72·4	68·6	50·7	43·5	42·7	44·5	9·0	10·6	12·9	..	..	.	..	..	..	..	..	..	..	..
Means	56·4	56·8	57·6	55·9	40·9	38·9	37·4	38·4	3·5	4·4	5·2	62·0	62·2	63·7	61·1	46·6	44·3	43·5	44·2	5·2	5·7	6·6	69·3	69·5	70·8	67·8	52·3	50·0	48·9	49·6	5·0	5·5	6·2

NOTE.—At Old Street and Regent's Park the thermometers are read at 9 a.m., the maximum temperature being entered to the previous day; while at Greenwich he thermometers are read at 9 p.m., and at Kew at 10 p.m., the temperature being entered to the civil day.

Abstract of Meteorological Observations for the Month of APRIL, 1883.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature. 9 a.m.	9 p.m.	Mean.	Means of Min.	Means of Max.	Absolute Min. and Max. Min.	Date.	Max.	Date.	Wet Bulb Therm. 9 a.m.	9 p.m.	Relative Humid. 9 a.m.	9 p.m.	Amount of Cloud. 9 a.m.	9 p.m.	Rainfall. Total Fall.	Greatest Fall in 24 hours. Amnt.	Date.	Weather. No. of days of Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	Wind. No. of Observations of N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.														
Alnwick	30·019	45·5	41·7	43·6	37·1	53·3	29·8	26	62·1	4	42·9	40·1	81	88	6·8	4·7	1·26	·36	19	9	1	4	8	0	3	1	11	7	5	3	5	5	20
Cramlington	30·017	46·6	41·9	44·2	35·8	52·7	27·9	4	63·2	4, 18	43·1	40·0	75	85	6·6	5·9	1·29	·35	19	10	1	2	9	0	5	8	5	8	4	11	12	7	0
Scaleby	29·999	45·9	42·6	44·2	36·0	54·6	26·9	25	62·2	8	43·2	40·6	80	85	6·7	5·7	1·72	·81	28	13	1	4	10	2	5	7	12	6	3	13	6	5	3
Rounton	30·020	45·9	42·7	44·3	36·0	53·0	27·0	26	63·8	4	..	..	..	..	..	..	1·09	·35	23	10	1	..	..	..	6	3	5	6	6	14	3	5	12
Scarborough	·031	46·5	43·5	45·0	39·1	50·9	33·8	23	63·9	4	43·1	41·3	75	83	6·1	5·5	1·10	·37	23	12	1	6	9	0	12	9	7	7	4	6	7	3	5
Wakefield	·022	46·0	43·6	44·8	36·4	54·3	24·5	1	63·6	9	42·7	41·2	77	81	7·3	6·0	3·34	1·17	28	12	0	4	13	0	11	11	7	5	8	6	10	2	0
Buxton	...	45·5	40·2	42·8	34·4	52·9	23·0	6	62·6	4	42·9	39·2	81	92	6·8	6·2	2·54	·77	28	9	2	1	10	0	0	5	20	6	5	7	9	6	2
Cheadle	·017	45·3	43·5	44·4	37·5	53·9	29·5	1	62·9	4	42·4	41·5	79	84	5·5	6·0	1·94	·80	28	9	2	7	8	0	6	6	15	9	6	8	4	3	3
Llandudno ..	·016	48·3	45·9	47·1	39·6	53·0	32·5	23	62·4	2	44·5	43·0	74	79	5·7	5·2	·83	·39	18	9	1	9	10	1	5	5	13	4	6	8	8	11	0
Leaton	·018	47·1	43·5	45·3	35·3	55·5	22·0	1	63·0	4	44·7	42·0	82	88	..	..	1·09	·39	28	10	0	..	..	..	..	..	..	..	..	..	..	..	..
Churchstoke..	·022	46·6	42·5	44·6	35·1	55·1	27·3	1	62·0	4	43·8	40·6	80	85	5·8	5·9	1·68	·42	27	10	2	2	6	0	6	9	8	7	6	8	4	12	0
Cheltenham ..	30·011	47·2	44·4	45·8	36·5	56·0	27·2	9	63·4	5	43·6	42·1	74	82	6·8	3·9	1·17	·27	28	10	1	2	7	3	4	3	11	6	10	13	3	6	4
Carmarthen	29·996	48·7	44·2	46·5	38·0	55·8	30·1	25	63·2	9	44·9	42·3	74	85	5·1	3·9	1·81	·55	26	10	0	8	7	0	3	0	17	2	4	2	4	0	28
Babbacombe..	30·013	47·7	44·3	46·0	39·6	53·9	33·1	24	58·7	4	44·5	42·2	78	84	7·0	3·9	·83	·34	26	11	2	4	7	0	5	9	12	4	6	6	7	5	6
Downside	·008	46·2	44·0	45·1	37·4	54·4	28·9	8	62·3	28	43·3	41·4	79	80	7·0	4·7	·98	·45	18	11	1	5	12	0	7	11	5	4	8	16	2	5	2
Marlborough	·024	46·4	43·8	45·1	36·6	55·2	27·1	9	65·0	5	43·2	41·5	77	82	7·0	4·5	·93	·24	27	11	1	3	11	0	4	5	9	4	5	3	6	1	23
Strathfield T.	·020	47·4	45·1	46·2	36·0	58·0	25·7	9	67·5	5	44·1	42·6	77	81	5·9	4·6	1·02	·53	27	9	1	6	8	0	3	13	6	4	8	8	9	8	1
Norwood	·023	47·5	45·3	46·4	38·1	56·6	28·0	9	67·4	5	43·6	42·3	73	78	6·5	5·2	1·52	·58	18	8	2	5	11	0	8	8	11	4	7	1	8	4	9
Croydon	·021	47·1	44·7	45·9	37·8	56·0	26·6	2	66·0	5	43·2	41·9	73	79	6·8	5·1	1·56	·59	18	10	2	5	11	0	6	10	8	3	4	5	8	2	14
Southbourne	·012	47·2	44·3	45·8	38·6	53·5	30·4	9	61·1	20	44·2	41·9	78	82	5·8	4·0	·81	·33	26	7	1	9	8	0	13	9	0	11	4	4	1	5	13
Margate	·015	47·4	44·4	45·9	39·7	52·6	32·8	13	62·6	5	44·1	42·9	77	88	6·2	4·7	1·37	·23	24, 28	11	1	5	9	0	7	13	7	5	5	1	5	2	15
Hillington ..	·017	47·7	43·1	45·4	36·2	55·7	24·3	1	67·5	5	44·1	41·4	75	87	8·7	6·4	1·59	·33	19	11	2	0	15	0	3	18	5	8	6	13	3	4	0
Lowestoft	30·008	46·1	43·1	44·6	38·5	50·0	27·9	9	59·0	15	43·2	41·1	79	85	6·6	6·7	1·96	·57	20	10	1	3	13	0	6	11	12	6	8	7	5	3	2
Dublin	29·991	47·3	46·4	46·9	40·0	53·4	34·3	8	60·0	4	43·8	43·9	75	81	5·2	4·2	2·21	1·39	26	10	0	6	3	0	3	2	11	9	8	3	12	3	9
Killarney	29·955	48·2	44·2	46·2	37·1	54·4	27·0	24	64·4	10	44·8	42·2	76	84	7·0	5·2	3·83	1·15	17	15	0	5	10	1	3	1	7	8	6	9	3	3	20
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

PHENOMENA OBSERVED AT THE STATIONS DURING APRIL, 1888.

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Alnwick	..	..	..	●	●	..	..	..	..	..	..	..	.	..	●	..	..	..	●	●	●	..	●✱	●	..	..	●	..	..	..
Cramlington	..	..	..	..	●	..	..	..	..	..	..	..	..	..	●	☋	..	●	●	●	..	●	●✱▲	●	☰	..	●	●	..	..
Scaleby	..	..	..	●	●	..	..	..	..	..	..	..	..	●	●	●	..	●	●	..	..	..	●	●✱	..	..	●	●	●	●
Rounton	..	..	..	..	●	☰	..	..	☰	..	..	..	..	..	..	..	..	●	●	●	..	..	●✱	●	..	..	●	●	●	●
Scarborough	..	..	..	..	●	..	..	..	..	..	●	●	..	..	●	..	..	●	●	●	..	●	●✱▲	●	..	..	●	●	..	..
Wakefield	..	..	..	..	●	..	..	..	..	..	..	●	..	..	●	..	..	●	●	●	..	..	●▲	●	..	..	●	●	●	●
Buxton	..	..	..	..	..	..	..	..	..	..	..	..	..	●	..	..	..	●	●	●	..	..	✱	✱	..	..	●	●	●	●
Cheadle	..	..	..	..	..	..	..	..	..	..	..	..	..	..	●	..	..	●	●	●	..	✱	✱▲	..	..	..	●	●	●	..
Llandudno	..	..	..	..	●	..	..	..	..	..	..	..	..	●	●	●	..	●	..	..	☰	..	✱	..	..	..	●	●	●	..
Leaton	..	..	..	..	..	..	..	..	..	..	..	..	..	..	●	..	..	●	●	●	●	..	..	..	..	●	●	●	●	●
Churchstoke	..	..	●	..	..	..	..	..	..	..	..	..	..	..	●	..	..	●	●T	●	☋	..	●✱▲	✱	T	●	●	●	●	..
Cheltenham	..	..	..	..	..	..	..	..	..	..	..	..	●	..	●	..	..	●☋	●☋	..	..	..	●✱▲	☋	..	●	●	●	●	●
Carmarthen	..	●	●	☰	..	..	..	..	..	..	..	..	●	..	●	..	●	●	..	..	..	..	..	..	..	●	●	..	●	●☈
Babbacombe	○	●☰	☰	☰	☰	..	○	..	..	..	○	..	●	..	●	○	●	●☋	●○	..	..	..	●✱▲	✱☋	●▲	●○	●	..	●	..
Downside	○	●	..	☰	..	..	☰	☰	☰	..	☰○	☰	●	..	●	..	●	●	☋	..	..	..	✱▲	..	●	●○	●	●	●	●
Marlborough	..	..	..	☰	..	..	..	..	..	..	..	●	●	..	..	..	..	●	●	..	..	●	✱▲	●	●	●	●	●	..	..
Strathfield Turgiss	☰	..	..	..	..	..	○	..	..	..	○	..	●	☰	..	..	..	●	●	●	..	●	●✱▲	..	..	..	●	●	●	..
Norwood	☰○	☰	☰	☰	..	..	☰○	..	☰	..	☰	☰	..	☰	..	○☋	○☋	●○	●☰☋	●☰	..	●▲	●✱▲	●✱▲	..	○	●	●☰○	○	..
Croydon	☰	..	☰	☰	☰	..	○	..	☰	..	☰○	☰	..	●☰	..	☋	..	●▲☋	●☰	●☰	●	●▲	●✱▲☴	●✱	..	..	●	●	..	..
Southbourne	..	..	..	..	..	..	..	..	..	..	..	..	●	..	..	..	..	●	●	..	..	..	●	●✱	..	●	●	..	..	..
Margate	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	☋	..	●☇	●	●	●	●▲	●✱▲	●	●	..	●	●☰	●	..
Hillington	..	..	..	..	..	..	..	..	..	..	..	..	●	☋	..	..	..	●	●	●	●	●	●✱▲	●✱	..	..	..	●	●	●
Lowestoft	..	..	..	..	..	☰	..	..	..	..	..	..	..	..	..	☋	..	●	●	●	●	●	✱	●	●	..	●	..	●	●
Dublin	○	●	☰☋	●	☰	..	☰○	☰	☋	..	..	☰	..	○	●	●☋	●	..	●▲	..	..	..	▲	☋	●	●	●	..	●	..
Killarney	●	●	●○☋	●	..	..	..	..	..	..	..	●	●	..	●	..	●	●	..	.	..	..	..	●	..	●	●	●	●	●

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✱ snow; ▲ hail; ☰ fog; ☈ thunderstorm; T thunder; ☇ lightning; ○ solar halo; ☋ lunar halo; ☴ aurora.

Abstract of Meteorological Observations for the Month of MAY, 1888.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of						Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.															
Alnwick	29·938	50·4	45·2	47·8	39·3	57·1	29·6	7	67·9	25	46·1	43·1	72	84	6·5	4·7	2·00	·61	7	10	3	6	11	0	10	3	3	2	4	13	9	4	14
Cramlington..	·936	50·2	46·4	48·3	38·3	56·3	29·7	7	69·9	24	46·1	43·9	73	81	6·4	5·7	1·60	·43	7	11	2	3	9	0	4	15	4	1	2	12	16	7	1
Scaleby	·933	50·9	46·6	48·8	39·7	58·0	27·4	5	65·2	22	48·2	44·8	82	86	6·0	5·9	1·18	·35	11	12	0	4	8	2	2	10	10	0	4	20	8	2	6
Rounton	·951	50·7	46·8	48·7	39·9	56·2	27·9	5	65·8	24	..	..	..	..	..	..	1·64	·41	7	13	2	..	..	..	2	20	0	4	0	20	5	5	6
Scarborough..	·938	52·1	48·5	50·3	43·9	56·8	35·1	4	72·7	24	47·7	45·6	72	79	5·7	5·8	1·71	·64	8	15	1	2	8	0	20	4	2	4	10	6	6	7	3
Wakefield	·959	52·0	49·8	50·9	42·3	59·0	33·3	7	71·7	24	47·2	46·0	70	74	6·0	5·1	1·16	·22	25	15	0	0	5	2	16	4	0	2	9	8	18	5	0
Buxton	....	50·3	45·3	47·8	38·9	56·4	29·5	4	70·1	24	46·8	43·3	76	85	7·2	5·8	1·79	·40	11	12	4	0	11	0	2	5	12	4	2	12	16	9	0
Cheadle ...	·965	50·2	47·8	49·0	41·7	57·8	30·2	4	70·2	24	47·4	45·9	80	86	6·1	6·8	·93	·33	25	13	3	4	11	1	7	8	9	1	7	7	10	11	2
Llandudno ..	·972	52·2	49·7	50·9	45·1	56·1	38·5	9	65·3	25	48·0	46·7	73	79	6·0	7·0	1·42	·54	8	6	1	2	11	0	5	3	17	1	3	10	15	8	0
Leaton	·979	52·4	47·9	50·2	41·3	58·9	29·0	4	72·6	22	49·9	46·8	83	92	6·4	6·1	1·84	·38	11, 25	15	0	6	13	..	15	4	4	2	5	10	16	4	2
Churchstoke..	·982	51·4	47·4	49·4	40·8	58·0	26·7	4	72·4	22	47·9	45·1	77	83	6·4	5·6	1·58	·38	25	14	2	3	5	1	6	7	4	2	7	7	17	12	0
Cheltenham ..	·972	52·7	49·3	51·0	41·9	59·8	28·7	4	72·5	16	49·8	47·5	81	87	6·6	5·9	1·90	·55	25	14	2	3	9	0	8	6	1	3	7	13	8	8	8
Carmarthen ..	·965	52·7	48·6	50·6	44·3	58·1	33·0	4	72·2	16	48·6	46·6	74	85	7·5	5·7	3·34	·86	12	14	0	2	10	0	9	6	8	4	8	11	6	2	8
Babbacombe..	·986	52·6	49·1	50·9	44·0	58·4	34·6	11	72·8	23	48·8	46·7	75	83	7·4	5·0	2·30	·66	9	13	0	3	10	1	7	17	5	0	5	11	7	8	2
Downside	·974	50·3	48·6	49·4	43·1	57·7	30·4	4	70·0	22	47·7	46·7	82	86	7·1	6·9	2·02	·78	11	14	1	1	13	0	10	13	2	1	5	13	8	10	0
Marlborough	·983	52·5	48·8	50·6	42·5	59·4	29·1	4	71·1	22, 23	48·6	46·7	75	85	7·5	6·3	2·00	·58	11	15	2	4	15	0	5	8	8	1	6	9	6	2	17
Strathfield T.	....	54·6	..	..	41·7	62·8	29·2	3	76·4	25	50·2	..	73	..	5·9	..	1·91	·60	26	11	0	..	..	..	..	..	..	..	..	..	..	..	..
Norwood	·976	54·4	50·4	52·4	44·0	61·9	30·5	4	77·9	24	49·2	47·2	68	78	6·0	5·5	1·88	·41	11	11	0	7	11	0	10	9	5	2	7	8	10	4	7
Croydon	·977	53·6	50·2	51·9	43·6	60·9	29·9	5	75·8	23	48·7	46·8	70	77	6·3	5·0	1·96	·39	11	10	1	8	13	0	7	9	2	2	8	12	8	3	11
Southbourne	·975	52·3	49·4	50·8	43·9	58·0	31·1	5	73·2	16	48·6	47·2	76	84	5·5	4·8	2·20	·51	26	13	0	9	10	0	17	5	2	6	6	5	3	7	11
Margate	·964	52·9	49·4	51·2	45·4	57·8	37·1	11	73·8	23	49·5	47·2	78	84	6·2	4·5	2·49	1·26	26	11	0	7	9	0	13	7	7	5	6	6	5	4	9
Hillington....	·955	54·1	48·7	51·4	42·2	61·7	30·9	4	78·2	24	50·6	46·6	78	85	7·8	7·1	1·73	·48	26	14	2	2	14	0	2	20	3	3	5	21	2	6	0
Lowestoft ...	·944	52·9	48·1	50·5	43·5	56·5	32·0	4	74·6	23	49·2	46·1	76	85	5·8	5·7	1·90	·78	26	12	0	5	9	0	5	15	2	1	6	6	15	12	0
Dublin	·967	52·4	51·0	51·7	45·5	57·9	35·4	11	68·8	23	47·7	47·6	70	77	6·3	6·0	2·02	1·39	8	13	1	1	6	2	5	14	4	5	5	13	10	4	2
Killarney	29·974	50·9	48·5	49·7	40·6	57·2	29·1	10	67·9	21	47·5	46·5	77	85	7·0	7·6	3·91	·80	24	16	1	3	16	1	7	9	6	0	4	15	3	8	10
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

PHENOMENA OBSERVED AT THE STATIONS DURING MAY, 1888.

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Alnwick	●	●▲	●✱▲	●▲	..	..	●	●✱▲	●✱▲	●	●	●	..	..	..	..	Ψ		..	..	..	..	..	..	..	..	..	..	..	..	..
Cramlington	●	●	●✱▲	✱▲	..	..	●	●	●	●	●	●	..	T	≡≺	..	≡Ψ	..	..	..	..	..	..	..	●≡	..	..	●	..	..	..
Scaleby	..	..	..	●	..	..	●	●	●	●	●	●	●	..	≡	..	..	..	..	..	●	..	..	..	..	..	●	●	..	..	●
Rounton	●	●	●✱	●✱	..	..	●	●	●	●	●	●	●	..	..	..	..	..	..	..	..	..	..	..	●	≡	..	●	..	..	..
Scarborough	●	●✱	●▲	●▲	●	..	●	●	●	●	●	●	●	..	..	≡	..	..	..	..	..	..	..	..	●K	●≺≡	..	..	●	..	..
Wakefield ..	..	●	●	●▲	●	..	●	●	●	●	●	..	●	●	..	..	..	..	..	..	..	..	..	..	●	●	..	●	●	..	..
Buxton	..	..	..	✱▲	●✱	..	..	●	●	●✱▲	●✱▲T	●	..	●	..	..	..	●	●	..	..	..	..	..	●≺	≺	..	●	..	..	..
Cheadle	..	..	●	✱	●	..	●	●	●✱	●	●✱▲	●	●	..	..	..	..	..	●	..	..	..	..	..	●≺T	..	..	●	..	..	..
Llandudno ..	..	..	..	✱	..	..	●	●≡	..	..	●	..	..	..	..	..	..	..	●	≡	..	..	..	..	●	..	..	..	●	..	..
Leaton ...	..	●≡	▲	..	●	●	●	●	●	●	●▲	●	●	..	..	..	..	..	●	●	T	..	..	..	●	●	..	●	..	..	..
Churchstoke	..	..	..	✱	●✱▲	..	●	●	●	●	●	●	●	..	..	..	..	..	●	●T	●T	..	..	..	●K	..	..	●	..	..	..
Cheltenham	..	..	●	●	●✱	..	●	..	●	●✱	●	●	●	●	..	..	..	..	●	●	..	..	..	..	●	●	..	..	..		
Carmarthen	..	●	●	..	●	..	●	●	●	●	●	●	●	●	..	..	..	..	..	..	..	≡	..	..	..	..	..	●	..	●	●
Babbacombe	●T	..	●▲○	..	●	●▲K○	..	●	●▲	●○	●▲	●	●	..	●≡	..	○	○	..	..	≡	○	..	..	●K	K	..	●	..	..	..
Downside ..	..	..	●	..	●	●≡	●	●	●	●✱	●	..	●	●	..	..	≡○	≡	..	..	≡	..	..	..	●	●≡	..	●	●	..	..
Marlborough	..	..	●	..	✱	●	●	●	●	●✱	●▲	●	●Ψ	●	●	..	..	..	..	●	..	..	..	..	●	●	..	..	●	..	..
Strathfield T.	..	..	..	..	..	●	●	●	●	●	●	●	●	●	..	..	..	..	..	●	..	..	..	..	T	●	..	..	..	..	..
Norwood	..	..	●	●	≡	○	●≡	●≡	●	●≡	●T	●	Ψ	●	≡	..	≡○	○	..	≡	○Ψ	..	..	..	●≡	●≡	≡	..	.	..	..
Croydon	..	..	●≡	..	≡	..	●	●≡	●	●≡	●✱▲T	●	..	●	≡	..	..	..	..	..	Ψ	..	..	..	●	●≡	..	..	..	..	≡
Southbourne	..	..	●	..	●	●	●	●	●	●	●	..	●	●	●	..	..	..	..	..	..	..	..	..	●	●	..	..	..	..	..
Margate	..	..	..	..	●	..	●	●	●	●	●	●	..	●K	..	..	..	○	..	..	..	..	●	●	●K	●	..	..	..	..	..
Hillington ..	..	●	●	●✱▲	●✱▲	..	●	●	●	●	●▲	●	..	●	..	..	..	●	●	..	..	..	..	..	T	●	..	..	..	..	..
Lowestoft ..	..	●	●▲	●	..	..	●	●	●	●▲	●	●	..	●	K	..	..	..	..	..	..	..	..	..	●K	●	..	..	..	..	..
Dublin	..	..	●▲	●▲○	▲≺	..	●	●✱	●	●	●		..	●	●	≡	≡	○	..	..	..	≡○	..	..	●	..	..	●	●	●	..
Killarney ..	..	..	●	..	●	..	..	●	●✱	●▲	●	●	●	●	..	..	..	..	..	..	..	..	..	●	●	..	●	●	●	●	●

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✱ snow; ▲ hail; ≡ fog; K thunderstorm; T thunder; ≺ lightning; ○ solar halo Ψ lunar halo; Ψ aurora.

Abstract of Meteorological Observations for the Month of JUNE, 1888.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of						Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.															
Alnwick.....	29·963	56·5	50·2	53·3	46·1	62·4	36·5	8	71·5	12	52·6	48·8	76	90	7·0	7·3	2·17	1·29	25	11	0	1	12	0	8	3	8	4	7	2	7	4	17
Cramlington	·964	54·8	51·5	53·2	46·0	61·1	37·0	8	72·3	29	51·0	49·3	76	85	7·3	7·2	2·67	1·23	25	16	0	1	8	0	3	8	8	8	9	11	7	5	1
Scaleby.....	·960	56·2	51·9	54·0	45·9	64·7	38·0	16	74·8	4, 30	..	..	..	..	7·2	6·2	3·51	1·35	25	12	0	4	12	2	3	6	12	1	5	21	3	4	5
Rounton	·969	56·3	52·8	54·6	47·0	62·1	36·9	22	72·8	29	53·1	51·5	80	91	..	..	2·72	·56	25, 29	18	0	..	..	..	4	8	2	2	2	18	3	7	14
Scarborough..	·974	55·8	53·0	54·4	49·3	60·3	42·5	22	74·3	29	52·3	50·6	78	84	6·4	7·3	2·67	1·25	29	14	0	1	9	0	5	10	8	5	8	11	5	2	6
Wakefield....	·969	57·4	54·7	56·1	48·7	64·4	39·0	22	76·4	29	52·5	51·8	71	81	7·3	6·6	3·57	1·30	29	14	0	1	11	0	6	8	8	5	9	9	10	5	0
Buxton	....	55·2	50·7	53·0	44·7	62·2	35·8	22	73·7	30	51·4	49·4	76	91	7·5	7·4	4·95	1·22	25	15	0	1	13	0	0	1	13	3	7	8	10	14	4
Cheadle.....	·968	54·7	53·6	54·1	46·9	62·7	40·3	4, 17	72·8	30	52·5	51·8	86	88	7·2	6·9	3·81	1·30	25	14	0	3	12	1	5	3	15	2	11	4	1	14	5
Llandudno ..	·969	57·6	54·8	56·2	50·3	62·2	44·8	6	70·0	29	53·9	52·2	78	83	6·0	5·7	1·70	·36	24	11	0	7	10	1	4	6	9	1	6	14	11	9	0
Leaton	·980	57·3	53·4	55·3	45·7	65·1	37·0	3	77·0	29	54·5	52·3	83	92	..	..	2·14	·42	15, 19	17	0	..	..	..	..	..	..	..	..	..	..	..	..
Churchstoke..	·980	56·7	53·0	54·8	45·9	64·0	36·4	6	73·9	29	52·8	50·7	76	84	7·4	6·2	1·97	·57	19	14	0	2	11	0	1	6	3	9	7	13	8	13	0
Cheltenham ...	·966	58·7	55·5	57·1	47·8	66·6	36·2	17	77·4	29	55·9	53·9	83	89	6·1	6·2	3·80	·86	20	19	0	3	10	1	6	6	1	0	15	9	6	6	11
Carmarthen ..	·963	59·2	53·7	56·5	48·5	64·6	43·1	16	73·6	4	55·0	52·1	75	89	6·9	5·4	4·49	·99	27	18	0	5	11	0	13	1	12	1	10	9	1	5	8
Babbacombe..	·990	57·8	53·9	55·8	49·5	63·3	41·0	21	72·8	13	54·2	51·6	78	85	7·8	5·6	3·17	·87	6	18	0	2	12	1	4	14	7	2	5	10	8	8	2
Downside	·974	56·7	53·5	55·1	48·2	63·8	41·1	17	73·9	29	53·3	51·6	79	87	6·8	5·4	5·55	2·06	10	19	0	3	7	0	10	8	0	6	6	13	10	7	0
Marlborough	·983	59·1	54·7	56·9	47·8	66·8	37·2	17	78·3	29	54·6	52·4	73	85	7·2	5·9	1·74	·42	27	17	0	3	12	0	8	2	9	1	8	6	5	1	20
Strathfield T.	....	60·4	..	..	47·7	69·4	36·9	18	81·2	29	55·9	..	74	..	7·1	..	1·88	·36	21	13	0	..	..	..	..	..	..	..	..	..	..	..	..
Norwood	·982	60·9	56·7	58·8	49·6	69·1	39·8	12	83·6	29	55·2	53·4	68	79	6·6	6·0	·93	·33	26	10	0	3	10	0	7	4	10	3	11	8	9	3	5
Croydon	·985	60·3	56·1	58·2	48·9	67·7	40·1	17	81·4	29	54·5	52·8	67	79	6·8	5·7	·90	·31	26	11	0	4	9	0	4	9	6	3	7	10	7	5	9
Southbourne	·978	58·8	55·3	57·1	49·7	64·0	39·5	21	76·0	4, 5	54·9	52·9	76	84	4·4	4·5	2·12	·78	10	11	0	7	3	1	5	9	0	7	5	11	3	12	8
Margate	·982	58·2	54·9	56·5	51·1	63·7	42·3	17	80·6	30	54·9	52·9	80	87	7·3	5·6	1·37	·47	24	11	0	3	12	0	3	15	2	6	12	10	4	0	8
Hillington.....	·979	60·0	54·0	57·0	47·8	67·4	36·6	12	83·3	30	57·0	52·9	82	92	7·2	8·5	4·78	1·85	15	13	0	2	16	0	3	19	7	9	4	11	2	5	0
Lowestoft	·967	57·7	53·5	55·6	49·7	61·5	41·3	17	77·0	30	54·0	51·7	78	88	6·9	6·5	2·16	·64	24	12	0	5	15	0	2	16	12	6	7	9	6	2	0
Dublin	·970	57·1	55·3	56·2	50·4	62·3	44·4	16	70·1	30	53·1	52·2	76	80	7·2	5·2	1·93	·28	17	18	0	2	7	0	3	7	12	4	4	7	12	8	3
Killarney	29·984	57·2	53·8	55·5	48·0	62·8	38·6	12	73·1	4	53·9	52·0	79	88	7·3	7·2	2·68	·58	14	18	0	1	13	0	9	2	5	5	3	8	8	9	11
Columns	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

PHENOMENA OBSERVED AT THE STATIONS DURING JUNE, 1888.

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Alnwick	●	..	..	..	..	..	..	≺	≡T	..	●	..	●	●	..	..	●	●	..	..	..	●	..	●	●T	●	●	..	..	≡
Cramlington	●	..	..	..	..		..	●K≡	≡T	..	●	●	●	●	●	..	●	≡	●≡	T	..	●≡	●	●T	●T≡	●	●≡	..	●	≡T
Scaleby	●	..	..	..	..	..	..	..	..	..	..	..	..	●	●	●▲	..	..	●	..	..	●	..	●	●K	●	●	●	●	..
Rounton	●	..	..	..	..	..	..	●K	●▲≡K	..	..	..	●	●	●	●	●	..	●	●	..	●	●	●T	●	●	●	..	●	●K≡
Scarborough	..	..	..	..	..	..	..	..	≡T	≡	●	..	●	●	●	●	..	..	●	●	..	●	..	..	●	●	●	●	●K	●K
Wakefield ..	..	●	..	..	..	..	..	..	●K	●	..	..	..	●	●	●	..	●	..	●	..	●	..	..	●K	●K	●	..	●K	●K
Buxton	●	..	..	..	..	..	●	.	●	..	..	..	..	●	●	●	..	..	..	●	..	●	●	●	●K	●K	●	●	●T	▲K
Cheadle	..	..	..	..	..	..	..	●K	K	●	..	..	..	●	●	●▲	..	..	..	●	..	●	●	●	●K	●▲T	●	●	●K	..
Llandudno ..	..	..	..	..	..	..	..	●	≡	..	..	..	..	●	●K	●	..	..	●	..	..	●	●	●	●K	●	●	..	..	..
Leaton	..	●	..	..	..	.	●≡	T	●	T	..	..	..	●	●	●	●	..	●	●	●	●	●	●	●	●	●	●	K	..
Churchstoke	..	..	..	..	..	..	..	T	K	●T	..	..	..	●	..	●▲	●	..	●	●	●	●	●	●	●	●	●	●	K	..
Cheltenham	..	..	..	..	..	●	●	●T	●K	●T	●	..	..	●T	●	▲T	●	●	●	●	●	●	..	●	..	●K	●	●T	●K	..
Carmarthen	..	..	..	..	..	●	●	≡T	T	..	..	..	..	●ψ	●▲K	●	●	..	●	●	●	●	●≡	●≡	●	●	●	●	●	●
Babbacombe	..	..	≺	≺	●≺T○	●	≡	●≡	≺	..	..	..	..	●	●	●▲	●	●	●	●	●	●○	●≡	●≡	●≡○	●	●	●≡	≡K○	..
Downside ..	..	≡	..	..	..	●	..	●	●K	●▲K	..	..	..	●	●	●T	●	●	●	●	●	●	●≡	●	T	●	●	●	●K	..
Marlborough	..	..	..	..	..	●	●	T	●K	●T	..	..	..	●	●	●T	..	●	●	●	●K	●	●	●	..	●	●	..	●K	≺
Strathfield T.	..	..	..	..	..	●	..	..	●K	●K≡	..	..	●	..	●	●	●	..	●	●	●	●	..	..	..	●T	●	..	K	..
Norwood ..	○	..	..	..	..	..	≡	..	≡	○	≡	..	≡	≡	●T≡	..	..	●	≡	●	●T	●	..	●○≺	●	●▲T○	●	..	●K	K T
Croydon	..	..	..	..	..	..	≡	..	T	..	..	..	..	≡	●≡	..	..	●	●≡	●	●T	..	●	●	●≺	●T	●	..	●	..
Southbourne	..	..	..	..	..	●	..	..	..	●K	..	..	..	..	●	●	..	●	●	..	..	●	●	..	..	..	●	●	●K	..
Margate . ..	○	..	..	..	..	..	..	..	●	..	..	..	..	●K	●K≡	●	●	●	..	●	●	..	..	●K	●K	..	●	..	..	..
Hillington ..	..	..	..	..	..	..	..	..	..	●	..	..	●	●	●	●K	●K	..	●	T	●	..	..	●	●K	●T	●	..	T	●K
Lowestoft ..	..	..	..	..	..	..	..	..	..	..	..	..	●	●≺	●	●	..	●	..	●	●	●	..	●	●K	●▲	●	..	..	..
Dublin	●	..	..	..	..	●	●≡	≡T	●K	..	..	..	○	●	●▲	●	●	●	●	..	●	..	●	..	●	●	●	●	●	●
Killarney ..	..	..	..	..	●	●	T	●K	▲	..	..	○	..	●	●	●	●	..	●	●	●	○	●	●	●	●	●	●	●	●

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✱ snow; ▲ hail; ≡ fog; K thunderstorm; T thunder; ≺ lightning; ○ solar halo; ψ lunar halo; Ψ aurora.

Abstract of Climatological Observations for the Quarter ending JUNE 30th, 1883.

APRIL.

Station.	Means at 9 a.m.		Temperature. Means.				Temperature. Extremes in Month.			Mean Amount of Cloud at 9 a.m.	Rain.	
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.	
Alnwick	45·5	81	37·1	53·3	16·2	45·2	29·8	62·1	32·3	6·8	1·26	9
Cramlington	46·6	75	35·8	52·7	16·9	44·2	27·9	63·2	35·3	6·6	1·29	10
Stapleton	45·5	82	36·1	51·6	15·5	43·9	28·5	59·9	31·4	7·4	1·85	15
Scaleby	45·9	80	36·0	54·6	18·6	45·3	26·9	62·2	35·3	6·7	1·72	13
Alston	43·2	80	33·6	50·9	17·3	42·3	23·1	59·6	36·5	7·0	1·76	13
Seathwaite	45·8	76	38·4	53·4	15·0	45·9	26·9	62·1	35·2	6·1	4·80	8
St. Mich.-on-Wyre	47·6	76	36·4	54·7	18·3	45·5	25·2	60·8	35·6	6·7	2·47	10
Blackpool	46·6	78	36·9	51·9	15·0	44·4	28·3	60·7	32·4	5·4	1·44	12
Bolton	45·7	76	37·7	53·5	15·8	45·6	28·7	59·4	30·7	6·3	2·38	8
Rounton	45·9	..	36·0	53·0	17·0	44·5	27·0	63·8	36·8	..	1·09	10
Scarborough	46·5	75	39·1	50·9	11·8	45·0	33·8	63·9	30·1	6·1	1·10	12
„ (St. Nichs.)	45·6	79	38·4	51·1	12·7	44·7	28·7	63·9	35·2	7·4	1·11	14
Wakefield	46·0	77	36·4	54·3	17·9	45·3	24·5	63·6	39·1	7·3	3·34	12
Hodsock	47·3	74	36·4	55·6	19·2	46·0	23·3	66·5	43·2	7·5	2·65	11
Strelley	45·7	78	36·9	54·9	18·0	45·9	26·0	64·9	38·9	6·0	2·32	12
Belper	45·8	80	37·5	54·6	17·1	46·0	26·2	64·6	38·4	3·2	2·37	9
Cheadle	45·3	79	37·5	53·9	16·4	45·7	29·5	62·9	33·4	5·5	1·94	9
Oakamoor	47·2	..	35·2	54·8	19·6	45·0	22·0	63·4	41·4	8·8	2·28	8
Buxton	45·5	81	34·4	52·9	18·5	43·7	23·0	62·6	39·6	6·8	2·54	9
Macclesfield	45·8	77	37·7	56·4	18·7	47·1	26·9	63·7	36·8	6·3	1·82	8
Chester	48·2	70	37·9	56·8	18·9	47·4	29·5	64·1	34·6	7·6	·79	8
Leaton	47·1	82	35·3	55·5	20·2	45·4	22·0	63·0	41·0	..	1·09	10
Churchstoke	46·6	80	35·1	55·1	20·0	45·1	27·3	62·0	34·7	5·8	1·68	10
Kenilworth	46·6	78	37·5	55·5	18·0	46·5	27·1	64·2	37·1	7·3	1·15	13
Burghill	47·9	74	38·1	57·6	19·5	47·8	27·6	66·8	39·2	6·9	·81	9
Ross	48·5	77	38·4	58·3	19·9	48·4	28·6	66·9	38·3	6·4	1·11	9
Wroxham	47·1	84	38·5	56·1	17·6	46·9	29·8	64·4	34·6	6·6	1·57	11

MAY.

Station.	Means at 9 a.m.		Temperature. Means.				Temperature. Extremes in Month.			Mean Amount of Cloud at 9 a.m.	Rain.	
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.	
Alnwick	50·4	72	39·3	57·1	17·8	48·2	29·6	67·9	38·3	6·5	2·00	10
Cramlington	50·2	73	38·3	56·3	18·0	47·3	29·7	69·9	40·2	6·4	1·60	11
Stapleton	49·3	79	38·5	55·5	17·0	47·0	30·1	63·6	33·5	6·8	2·45	15
Scaleby	50·9	82	39·7	58·0	18·3	48·9	27·4	65·2	37·8	6·0	1·18	12
Alston	47·2	77	35·6	53·7	18·1	44·6	22·6	64·0	41·4	6·8	2·60	17
Seathwaite	49·1	72	42·1	56·2	14·1	49·2	29·3	69·6	40·3	6·3	6·24	11
St. Mich.-on-Wyre	52·2	72	41·4	58·8	17·4	50·1	31·2	65·4	34·2	6·9	1·14	9
Blackpool	50·9	77	42·6	55·9	13·3	49·2	31·0	63·3	32·3	5·6	1·19	12
Bolton	50·1	75	41·5	57·0	15·5	49·2	31·5	67·6	36·1	7·5	·94	13
Rounton	50·7	..	39·9	56·2	16·3	48·0	27·9	65·8	37·9	..	1·64	13
Scarborough	52·1	72	43·9	56·8	12·9	50·3	35·1	72·7	37·6	5·7	1·71	15
„ (St. Nichs.)	51·2	73	42·0	56·3	14·3	49·2	33·7	70·5	36·8	6·1	1·74	12
Wakefield	52·0	70	42·3	59·0	16·7	50·7	33·3	71·7	38·4	6·0	1·16	15
Hodsock	53·0	71	42·0	59·9	17·9	51·0	33·3	74·3	41·0	6·1	2·31	12
Strelley	52·3	76	41·8	59·9	18·1	50·8	31·4	74·5	43·1	5·9	1·41	14
Belper	51·1	79	42·5	58·9	16·4	50·7	33·8	73·1	39·3	5·4	·93	11
Cheadle	50·2	80	41·7	57·8	16·1	49·7	30·2	70·2	40·0	6·1	·93	13
Oakamoor	52·0	73	40·8	60·2	19·4	50·5	27·1	71·6	44·5	8·7	1·47	12
Buxton	50·3	76	38·9	56·4	17·5	47·6	29·5	70·1	40·6	7·2	1·79	12
Macclesfield	50·7	80	41·8	..	..	..	28·6	..	..	6·9	1·05	16
Chester	53·1	69	43·7	60·5	16·8	52·1	32·4	72·2	39·8	7·6	1·09	12
Leaton	52·4	83	41·3	58·9	17·6	50·1	29·0	72·6	43·6	6·4	1·84	15
Churchstoke	51·4	77	40·8	58·0	17·2	49·4	26·7	72·4	45·7	6·4	1·58	14
Kenilworth	52·1	74	42·7	59·2	16·5	50·9	30·5	71·3	42·8	7·2	1·72	14
Burghill	53·1	74	43·0	61·7	18·7	52·4	30·7	75·9	45·2	7·1	1·16	12
Ross	54·0	79	43·1	62·6	19·5	52·1	30·5	75·8	45·3	6·5	1·72	14
Wroxham	52·7	81	41·9	59·6	17·7	50·9	29·8	72·3	42·5	6·6	1·00	14

JUNE.

Station.	Means at 9 a.m.		Temperature. Means.				Temperature. Extremes in Month.			Mean Amount of Cloud at 9 a.m.	Rain.	
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.	
Alnwick	56·5	76	46·1	62·4	16·3	54·2	36·5	71·5	35·0	7·0	2·17	11
Cramlington	54·8	76	46·0	61·1	15·1	53·6	37·0	72·3	35·3	7·3	2·67	16
Stapleton	55·8	77	45·5	61·4	15·9	53·4	36·6	72·0	35·4	8·0	3·94	15
Scaleby	56·2	..	45·9	64·7	18·8	55·3	38·0	74·8	36·8	7·2	3·51	12
Alston	53·4	77	41·8	61·2	19·4	51·5	30·8	70·0	39·2	8·3	5·11	18
Seathwaite	56·9	72	49·6	64·5	14·9	57·0	41·9	72·5	30·6	7·1	7·82	14
St. Mich.-on-Wyre	57·9	74	47·5	64·5	17·0	56·0	39·5	71·4	31·9	7·4	3·15	11
Blackpool	56·8	73	48·5	62·0	13·5	55·3	35·8	68·7	32·9	6·0	2·52	13
Bolton	56·1	77	47·6	63·2	15·6	55·4	39·4	73·8	34·4	7·7	4·21	17
Rounton	56·3	80	47·0	62·1	15·1	54·6	36·9	72·8	35·9	..	2·72	18
Scarborough	55·8	78	49·3	60·3	11·0	54·8	42·5	74·3	31·8	6·4	2·67	14
„ (St. Nichs.)	56·3	76	47·8	..	..	..	40·2	74·0	33·8	5·8	2·98	14
Wakefield	57·4	71	48·7	64·4	15·7	56·5	39·0	76·4	37·4	7·3	3·57	14
Hodsock	58·2	72	47·5	64·8	17·3	56·1	37·3	77·0	39·7	6·1	3·02	13
Strelley	57·6	75	47·2	65·5	18·3	56·4	39·9	75·9	36·0	6·7	4·52	13
Belper	56·3	81	48·3	63·9	15·6	56·1	39·4	75·0	35·6	4·0	3·91	14
Cheadle	54·7	86	46·9	62·7	15·8	54·8	40·3	72·8	32·5	7·2	3·81	14
Oakamoor	57·1	73	..	66·7	..	..	..	77·1	..	8·8	5·23	12
Buxton	55·2	76	44·7	62·2	17·5	53·5	35·8	73·7	37·9	7·5	4·95	15
Macclesfield	55·6	76	46·9	..	..	..	32·7	..	..	6·5	4·36	15
Chester	59·0	69	48·8	66·6	17·8	57·7	38·8	76·2	37·4	7·3	2·94	13
Leaton	57·3	83	45·7	65·1	19·4	55·4	37·0	77·0	40·0	..	2·14	17
Churchstoke	56·7	76	45·9	64·0	18·1	54·9	36·4	73·9	37·5	7·4	1·97	14
Kenilworth	57·6	76	48·4	65·6	17·2	57·0	39·8	77·4	37·6	6·6	2·78	15
Burghill	58·4	74	48·6	66·6	18·0	57·6	39·7	74·7	35·0	6·7	4·20	19
Ross	59·6	78	48·8	67·6	18·8	58·2	40·7	76·9	36·2	6·7	4·30	20
Wroxham	58·1	81	47·9	66·0	18·8	57·3	36·2	77·4	41·2	6·1	3·80	19

Station.	APRIL.												MAY.											
	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.								Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.		°	o/o	°	°	°	°	°	°	°		In.	
Llandudno	48·3	74	39·6	53·0	13·4	46·3	32·5	62·4	29·9	5·7	·83	9	52·2	73	45·1	56·1	11·0	50·6	38·5	65·3	26·8	6·0	1·42	6
Aberystwith ..	48·1	75	39·6	52·7	13·1	46·2	31·9	61·2	29·3	..	..	..	51·3	74	45·0	56·5	11·5	50·7	31·9	64·2	32·3	..	1·14	9
Carmarthen ..	48·7	74	38·0	55·8	17·8	46·9	30·1	63·2	33·1	5·1	1·81	10	52·7	74	44·3	58·1	13·8	51·2	33·0	72·2	39·2	7·5	3·34	14
Cardiff.....	48·0	76	40·1	56·0	15·9	48·0	31·9	62·4	30·5	..	·67	7	53·0	76	45·1	60·0	14·9	52·6	34·0	71·8	37·8	..	1·90	12
Weston-s-Mare	48·0	79	40·1	54·5	14·4	47·3	33·5	62·4	28·9	5·9	·90	9	52·5	81	45·0	58·7	13·7	51·9	33·0	69·1	36·1	7·2	1·28	15
Ilfracombe ..	49·0	86	43·6	54·0	10·4	48·8	36·7	62·0	25·3	5·3	1·34	9	51·8	88	47·1	57·4	10·3	52·3	40·1	69·5	29·4	7·5	2·48	14
Bude	48·5	80	38·8	54·9	16·1	46·9	29·1	62·0	32·9	5·1	1·33	7	53·1	85	44·0	58·4	14·4	51·2	32·1	72·5	40·4	6·7	1·69	10
Helston	49·1	77	40·5	54·5	14·0	47·5	34·5	61·2	26·7	5·8	1·41	11	53·1	76	44·4	58·6	14·2	51·5	34·5	73·6	39·1	6·8	1·71	14
Falmouth	49·8	74	41·9	53·4	11·5	47·6	34·4	59·1	24·7	5·7	1·21	9	54·5	72	46·1	58·1	12·0	52·1	34·9	69·3	34·4	7·1	2·47	15
Maker	48·0	78	41·2	54·1	12·9	47·6	34·2	59·6	25·4	4·9	·86	10	52·0	81	45·3	58·7	13·4	52·0	34·0	72·0	38·0	7·0	2·56	13
Ashburton	48·2	78	40·0	54·2	14·2	47·1	32·6	62·0	29·4	6·5	1·66	12	53·3	78	44·2	59·0	14·8	51·6	33·9	72·1	38·2	..	2·34	11
Bridgetown....	49·0	76	36·9	56·4	19·5	46·6	27·5	62·0	34·5	6·7	1·15	11	54·8	73	41·9	61·3	19·4	51·6	28·5	72·7	44·2	7·0	3·12	13
Torquay, C. C.	47·7	83	40·7	53·4	12·7	47·1	33·0	58·8	25·8	6·3	·80	5	53·0	83	44·9	57·7	12·8	51·3	34·0	69·8	35·8	7·2	2·11	13
Babbacombe ..	47·7	78	39·6	53·9	14·3	46·7	33·1	58·7	25·6	7·0	·83	11	52·6	75	44·0	58·4	14·4	51·2	34·6	72·8	38·2	7·4	2·30	13
Teignmouth, B.	48·5	74	41·1	54·4	13·3	47·8	34·0	58·5	24·5	6·5	1·00	8	53·9	71	45·0	59·6	14·6	52·3	34·4	73·0	38·6	7·0	2·02	13
Teignmouth, W.	49·1	79	40·4	54·8	14·4	47·6	33·0	59·8	26·8	6·0	1·09	11	53·9	76	44·3	60·8	16·5	52·6	33·2	74·6	41·4	6·7	1·89	14
Sidmouth	47·6	78	40·1	52·6	12·5	46·3	32·8	57·6	24·8	6·7	1·08	10	52·1	79	43·7	57·6	13·9	50·7	33·5	72·0	38·5	7·6	1·56	10
Brampford Spk.	48·8	81	38·3	56·2	17·9	47·3	30·8	61·7	30·9	6·3	1·32	8	53·3	79	43·9	60·3	16·4	52·1	34·8	71·1	36·3	7·5	1·38	12
Cullompton ..	48·5	75	36·8	56·2	19·4	46·5	28·2	64·2	36·0	6·4	1·34	9	53·5	76	42·1	60·2	18·1	51·1	33·0	71·5	38·5	7·5	1·49	12
Stowell	..	..	..	..	..	..	..	..	..	6·7	1·17	12	51·1	79	43·0	..	..	..	31·7	70·3	38·6	7·1	1·78	15
Weymouth	47·0	80	40·8	52·7	11·9	46·8	34·3	59·3	25·0	5·4	1·02	6	52·0	76	45·0	57·9	12·9	51·4	34·0	67·8	33·8	5·0	1·93	10
Swanage	46·8	83	40·7	50·9	10·2	45·8	33·0	59·2	26·2	5·8	·71	4	51·6	80	45·0	56·2	11·2	50·6	32·2	68·3	36·1	5·7	2·33	10
Bournemouth	47·8	77	38·2	54·5	16·3	46·3	30·9	61·4	30·5	5·1	·97	6	53·6	75	43·3	60·0	16·7	51·7	30·6	77·5	46·9	5·4	2·21	12
Southbourne ..	47·2	78	38·6	53·5	14·9	46·1	30·4	61·1	30·7	5·8	·81	7	52·3	76	43·9	58·0	14·1	50·9	31·1	73·2	42·1	5·5	2·20	13
Southampton..	47·7	76	36·6	56·9	20·3	46·7	27·0	63·9	36·9	7·1	1·12	10	53·8	75	41·7	61·4	19·7	51·6	30·2	76·4	46·2	6·0	2·39	16
Portsmouth ..	47·4	78	39·1	56·3	17·2	47·7	31·2	67·7	36·5	5·5	1·12	8	54·6	76	45·4	62·3	16·9	53·8	33·0	75·3	42·3	4·4	2·43	15
Ventnor	48·2	78	41·3	54·5	13·2	47·9	32·3	60·9	28·6	5·6	1·56	7	53·2	78	45·8	59·3	13·5	52·5	33·5	70·2	36·7	6·7	2·61	11
Worthing	47·6	78	39·6	54·0	14·4	46·8	32·1	61·1	29·0	5·7	1·48	8	54·1	76	44·8	59·4	14·6	52·1	33·2	72·7	39·5	4·9	2·36	12
Hastings	48·0	78	41·2	54·1	12·9	47·7	32·4	62·3	29·9	5·7	1·75	7	53·7	76	45·8	58·8	13·0	52·3	32·6	70·6	38·0	5·1	2·38	10

Station.	JUNE.											
	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.	
Llandudno	57·6	78	50·3	62·2	11·9	56·3	44·8	70·0	25·2	6·0	1·70	11
Aberystwith ..	57·9	79	50·8	62·6	11·8	56·7	45·9	74·7	28·8	..	2·76	15
Carmarthen ..	59·2	75	48·5	64·6	16·1	56·5	43·1	73·6	30·5	6·9	4·49	18
Cardiff.....	58·6	76	50·2	66·7	16·5	58·4	43·8	74·2	30·4	..	3·04	17
Weston-s-Mare	58·2	78	50·4	64·5	14·1	57·4	43·5	75·3	31·8	7·0	2·34	15
Ilfracombe ..	57·3	84	52·5	62·6	10·1	57·5	46·8	72·0	25·2	6·8	3·27	17
Bude	58·4	81	50·3	64·0	13·7	57·1	41·6	77·5	35·9	6·3	2·46	12
Helston	57·9	83	50·7	63·5	12·8	57·1	43·0	72·2	29·2	6·8	2·03	18
Falmouth	58·8	79	51·5	63·9	12·4	57·7	46·3	73·1	26·8	6·9	2·51	19
Maker	56·7	84	50·8	63·5	12·7	57·2	42·2	75·4	33·2	7·5	2·18	19
Ashburton	57·2	82	49·2	64·1	14·9	56·7	42·1	73·2	31·1	..	4·24	21
Bridgetown....	60·1	74	48·2	66·5	18·3	57·4	36·8	74·7	37·9	7·2	3·80	19
Torquay, C. C.	57·3	84	50·1	62·9	12·8	56·5	42·0	71·5	29·5	7·6	2·86	18
Babbacombe ..	57·8	78	49·5	63·3	13·8	56·4	41·0	72·8	31·8	7·8	3·17	18
Teignmouth, B.	58·3	75	50·8	64·7	13·9	57·7	42·5	72·9	30·4	..	3·08	16
Teignmouth, W.	59·4	78	50·5	66·4	15·9	58·4	42·7	76·0	33·3	7·1	3·85	18
Sidmouth	57·4	79	49·5	62·9	13·4	56·2	41·9	75·4	33·5	8·1	2·58	20
Brampford Spk.	58·9	78	50·2	65·8	15·6	58·0	41·5	78·4	36·9	7·5	2·02	18
Cullompton ..	58·6	74	47·8	66·2	18·4	57·0	38·0	76·0	38·0	7·3	1·93	15
Stowell	57·0	82	48·5	64·3	15·8	56·4	38·4	75·0	36·6	6·8	3·11	19
Weymouth	58·4	76	50·9	64·2	13·3	57·6	43·5	71·8	28·3	4·7	1·25	13
Swanage	56·8	79	49·8	61·2	11·4	55·5	42·7	68·9	26·2	4·9	2·82	13
Bournemouth	60·3	75	49·3	66·2	16·9	57·7	40·6	79·7	39·1	3·9	2·43	10
Southbourne ..	58·8	76	49·7	64·0	14·3	56·9	39·5	76·0	36·5	4·4	2·12	11
Southampton..	60·1	73	48·4	68·1	19·7	58·2	38·4	79·0	40·6	7·0	1·77	19
Portsmouth ..	60·8	72	51·6	69·3	17·7	60·5	42·8	78·3	35·5	4·6	1·55	11
Ventnor	59·0	79	51·8	65·9	14·1	58·9	44·9	73·5	28·6	6·3	1·37	13
Worthing	60·4	75	51·1	65·4	14·3	58·2	40·3	72·4	32·1	5·2	·93	12
Hastings	59·6	76	52·2	65·0	12·8	58·6	43·6	80·9	37·3	4·9	·96	7

Abstract of Climatological Observations for the Quarter ending JUNE 30th, 1883.

Station.	APRIL.												MAY.												JUNE.											
	Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.			Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.			Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.										Means.				Extremes in Month.										Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.		°	o/o	°	°	°	°	°	°	°		In.		°	o/o	°	°	°	°	°	°	°		In.	
Ramsgate	47·8	74	39·8	53·9	14·1	46·9	32·9	63·9	31·0	5·6	1·26	10	53·2	75	45·1	59·0	13·9	52·0	35·4	77·3	41·9	5·0	2·45	10	58·6	76	51·1	64·0	12·9	57·6	42·5	81·2	38·7	6·9	1·84	9
Margate	47·4	77	39·7	52·6	12·9	46·1	32·8	62·6	29·8	6·2	1·37	11	52·9	78	45·4	57·8	12·4	51·6	37·1	73·8	36·7	6·2	2·49	11	58·2	80	51·1	63·7	12·6	57·4	42·3	80·6	38·3	7·3	1·37	11
Southend	48·3	81	39·7	55·1	15·4	47·4	30·1	64·6	34·5	6·6	1·41	10	55·3	80	45·4	61·9	16·5	53·6	31·1	78·1	47·0	5·6	1·92	9	61·4	79	51·2	68·0	16·8	59·6	41·4	81·9	40·5	6·6	1·87	11
Downside	46·2	79	37·4	54·4	17·0	45·9	28·9	62·3	33·4	7·0	·98	11	50·3	82	43·1	57·7	14·6	50·4	30·4	70·0	39·6	7·1	2·02	14	56·7	79	48·2	63·8	15·6	56·0	41·1	73·9	32·8	6·8	5·55	19
Marlborough ..	46·4	77	36·6	55·2	18·6	45·9	27·1	65·0	37·9	7·0	·93	11	52·5	75	42·5	59·4	16·9	50·9	29·1	71·1	42·0	7·5	2·00	15	59·1	73	47·8	66·8	19·0	57·3	37·2	78·3	41·1	7·2	1·74	17
Strathfield Turg.	47·4	77	36·0	58·0	22·0	47·0	25·7	67·5	41·8	5·9	1·02	9	54·6	73	41·7	62·8	21·1	52·2	29·2	76·4	47·2	5·9	1·91	11	60·4	74	47·7	69·4	21·7	58·6	36·9	81·2	44·3	7·1	1·88	13
Harestock	46·5	72	36·6	55·1	18·5	45·8	28·1	63·2	35·1	6·9	·98	9	52·7	70	41·5	59·4	17·9	50·5	29·0	72·5	43·5	6·3	2·01	15	58·8	69	47·9	66·2	18·3	57·0	37·5	78·1	40·6	6·8	2·27	16
Swarraton	45·9	80	35·9	55·2	19·3	45·6	24·3	64·3	40·0	7·2	1·27	8	52·2	74	40·7	59·5	18·8	50·1	29·4	72·0	42·6	6·3	1·99	13	58·1	75	47·0	66·2	19·2	56·6	33·2	78·7	45·5	7·0	2·09	14
Tunbridge	48·6	73	37·5	56·9	19·4	47·2	25·8	68·5	42·7	6·2	1·26	7	55·6	68	43·8	62·3	18·5	53·0	30·3	75·7	45·4	5·6	2·04	10	61·2	70	50·1	68·6	18·5	59·4	38·3	83·6	45·3	6·5	1·21	10
Beddington....	47·0	74	36·4	55·7	19·3	46·1	25·4	66·1	40·7	6·6	1·36	8	54·1	69	41·7	61·4	19·7	51·5	28·1	77·2	49·1	5·8	1·90	11	60·8	68	47·2	69·1	21·9	58·2	36·0	82·8	46·8	6·1	·82	8
Croydon	47·1	73	37·8	56·0	18·2	46·9	26·6	66·0	39·4	6·8	1·56	10	53·6	70	43·6	60·9	17·3	52·2	29·9	75·8	45·9	6·3	1·96	10	60·3	67	48·9	67·7	18·8	58·3	40·1	81·4	41·3	6·8	·90	11
South Norwood.	47·2	74	37·8	56·1	18·3	47·0	28·1	67·0	38·9	6·4	1·52	7	54·0	71	43·5	61·1	17·6	52·3	30·9	76·9	46·0	6·0	1·76	10	60·4	71	48·9	68·9	20·0	58·9	40·1	83·5	43·4	6·5	·75	11
Norwood	47·5	73	38·1	56·6	18·5	47·4	28·0	67·4	39·4	6·5	1·52	8	54·4	68	44·0	61·9	17·9	52·9	30·5	77·9	47·4	6·0	1·88	11	60·9	68	49·6	69·1	19·5	59·4	39·8	83·6	43·8	6·6	·93	10
Isleworth	48·3	73	37·8	57·2	19·4	47·5	27·0	66·7	39·7	6·6	1·48	9	55·1	69	43·5	62·4	18·9	52·9	30·9	78·4	47·5	4·7	1·89	10	61·3	70	49·5	69·4	19·9	59·5	38·5	83·4	44·9	7·4	1·47	12
London, Old St.	47·7	73	40·9	56·4	15·5	48·7	32·2	65·9	33·7	7·8	1·47	10	54·3	70	46·6	62·0	15·4	54·3	32·1	77·7	45·6	7·2	1·96	14	60·7	70	52·3	69·3	17·0	60·8	44·0	82·9	38·9	7·4	·97	14
Regent's Park..	46·8	72	38·9	56·8	17·9	47·8	30·4	66·8	36·4	..	1·66	8	53·8	70	44·3	62·2	17·9	53·3	31·0	78·0	47·0	..	2·04	11	60·1	73	50·0	69·5	19·5	59·7	42·0	83·0	41·0	..	1·76	13
Finchley	46·4	78	36·4	55·4	19·0	45·9	27·8	66·8	39·0	6·9	1·50	9	52·8	77	42·2	60·3	18·1	51·3	29·0	75·1	46·1	6·1	1·66	10	58·8	78	47·6	67·2	19·6	57·4	37·8	82·8	45·0	6·8	2·43	11
Watford	47·0	74	37·6	55·7	18·1	46·7	26·7	65·7	39·0	6·3	1·36	9	..	..	..	..	..	..	30·8	76·1	45·3	..	1·83	11	59·7	73	48·7	68·2	19·5	58·4	39·3	81·5	42·2	5·9	1·91	13
Throcking	46·3	..	37·1	55·3	18·2	46·2	28·9	68·1	39·2	6·2	1·79	8	53·1	80	41·9	60·7	18·8	51·3	28·7	77·6	48·9	6·6	1·16	10	58·3	..	48·8	66·9	18·1	57·9	40·3	80·0	39·7	6·8	2·20	9
Aspley Guise ..	48·2	74	37·2	55·7	18·5	46·5	29·5	67·3	37·8	6·5	1·50	9	54·0	70	42·3	60·6	18·3	51·4	27·5	75·7	48·2	7·0	1·87	10	59·3	74	48·4	67·1	18·7	57·8	40·6	80·4	39·8	7·0	2·71	13
Hillington	47·7	75	36·2	55·7	19·5	45·9	24·3	67·5	43·2	8·7	1·59	11	54·1	78	42·2	61·7	19·5	52·0	30·9	78·2	47·3	7·8	1·73	14	60·0	82	47·8	67·4	19·6	57·6	36·6	83·3	46·7	7·2	4·78	13
Cromer	46·9	81	38·1	52·2	14·1	45·2	25·8	66·9	41·1	6·5	1·90	12	52·5	83	43·0	58·6	15·6	50·8	30·8	76·9	46·1	6·1	1·43	12	58·4	82	48·5	63·2	14·7	55·8	37·8	77·9	40·1	5·6	3·57	10
Somerleyton .	46·4	79	37·3	52·9	15·6	45·1	27·4	63·0	35·6	4·5	1·87	8	53·2	77	43·0	59·2	16·2	51·1	32·1	75·0	42·9	5·2	1·54	11	57·8	77	48·8	63·3	14·5	56·1	40·2	77·0	36·8	6·4	2·28	11
Lowestoft	46·1	79	38·5	50·0	11·5	44·2	27·9	59·0	31·1	6·6	1·96	10	52·9	76	43·5	56·5	13·0	50·0	32·0	74·6	42·6	5·8	1·90	12	57·7	78	49·7	61·5	11·8	55·6	41·3	77·0	35·7	6·9	2·16	12
Guernsey	48·2	82	42·9	54·3	11·4	48·6	33·7	61·9	28·2	5·6	1·12	6	52·5	81	46·4	59·6	13·2	53·0	39·6	69·4	29·8	6·3	2·56	12	57·7	84	52·0	63·8	11·8	57·9	45·0	72·9	27·9	5·7	2·38	13
Dublin	47·3	75	40·0	53·4	13·4	46·7	34·3	60·0	25·7	5·2	2·21	10	52·4	79	45·5	57·9	12·4	51·7	35·4	68·8	33·4	6·3	2·02	13	57·1	76	50·4	62·3	11·9	56·4	44·4	70·1	25·7	7·2	1·93	18
Killarney	46·6	76	41·1	53·6	12·5	47·3	33·1	61·4	28·3	5·1	3·81	15	52·9	82	46·0	59·2	13·2	52·6	38·9	69·2	30·3	6·3	3·91	17	57·2	79	48·0	62·8	14·8	55·4	38·6	73·1	34·5	7·1	2·68	18

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MADE AT THE

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WITH

REMARKS ON THE WEATHER

FOR THE QUARTER ENDING

SEPTEMBER 30TH, 1883.

BY

WILLIAM MARRIOTT, F.R.Met.Soc.

Assistant-Secretary.

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THE METEOROLOGICAL RECORD.

REMARKS

ON THE

WEATHER OVER ENGLAND

FOR THE QUARTER ENDING SEPTEMBER 30TH, 1883.

THE weather throughout the whole of July and first part of August was dull, cold and wet; this together with frequent thunderstorms retarded and greatly interfered with the harvest. Fine, bright, dry and moderately warm weather prevailed from the 16th to the 29th of August, which was of immense value to the country in allowing the harvest in the South to be completely gathered in, and by rapidly bringing forward that in the North. From the 30th of August to the 10th of September, cold, wet and rough weather prevailed. This was followed by a short period of finer weather, but from the 23rd to the 30th, the weather was very dull and wet. A severe storm passed across the country on the 2nd of September, accompanied by very low barometer readings.[1] Thunderstorms were of frequent occurrence during July.

AIR TEMPERATURE was below the average.

In *July* the mean temperature (mean of maximum and minimum) was 58°·3, and varied from 61°·5 at Portsmouth, 61°·3 at Southend, 61°·2 at London, 60°·3 at Regent's Park and Tunbridge, and 60°·1 at Hastings and Norwood, to 53°·8 at Alston, 55°·4 at Buxton, 55°·6 at Cramlington, 56°·0 at Cheadle, 56°·1 at Oakamoor, and 56°·2 at Seathwaite. The weather was dull and cold, especially from the 11th to the end of the month. The maximum temperature occurred generally on the 2nd, when readings above 80° were registered in the South-eastern districts. The highest temperatures on this day were 83°·4 at Tunbridge, 82°·5 at Isleworth, 82°·4 at Norwood, 82°·3 at Regent's Park, 82°·1 at London, 81°·9 at Beddington, and 81°·7 at Strathfield Turgiss. The minimum temperature took place in the West and South on the 15th and 16th, and in the other districts on various dates, mostly the 20th and 24th. The lowest readings were:—on the 15th, 38°·8 at Churchstoke, and 39°·8 at Cheltenham; on the 16th, 38°·8 at Swarraton, and 39°·3 at Southampton; on the 20th, 33°·8 at Alston, 37°·3 at Rounton, and 38°·0 at Hodsock; on the 24th, 37°·1 at Oakamoor, and 38°·1 at Buxton; and on the 28th, 38°·2 at Leaton, and 39°·5 at St. Michael's-on-Wyre. The mean daily range of temperature was 14°·3.

In *August* the mean temperature was 59°·9, and varied from 64°·1 at London and Portsmouth, 63°·5 at Southend, 63°·2 at Ventnor, 63°·1 at Regent's Park, 62°·9 at Norwood, to 54°·1 at Alston, 55°·4 at Stapleton, 56°·1 at Buxton, 56°·8 at Cramlington, Scaleby, and Seathwaite, and 57°·2 at Bolton. The weather was fine and dry throughout the month, especially

[1] *Quarterly Journal of the Royal Meteorological Society*, Vol. X., p. 7.

after the 16th. The maximum temperature occurred on the 13th, 21st, and 24th to 26th. The highest readings were :—on the 13th, 81°·3 at Cromer and Hillington, 81°·2 at Regent's Park, and 81°·1 at London ; on the 21st, 82°·2 at Isleworth, 81°·6 at Norwood, and 81°·4 at Beddington ; on the 26th, 82°·3 at Portsmouth, and 80°·8 at Southend. The minimum took place on various dates. The lowest readings were :—on the 11th, 39°·6 at Strathfield Turgiss ; on the 12th, 36°·8 at Alston ; 37°·5 at Stapleton, and 39°·1 at St. Michael's-on-Wyre ; and on the 19th, 39°·3 at Cullompton, and 39°·4 at Oakamoor. The mean daily range of temperature was 15°·8.

In *September* the mean temperature was 56°·4, and varied from 59°·5 at Ventnor, 59°·0 at London, 58°·9 at Portsmouth, 58°·7 at Hastings and Southend, 58°·5 at Ramsgate and Teignmouth, and 58°·4 at Ilfracombe, to 51°·0 at Alston, 53°·0 at Buxton, 53°·3 at Cramlington, 53°·7 at Stapleton, 54°·0 at Rounton, and 54°·4 at Churchstoke and Seathwaite. The weather throughout the month was rather cold and damp. The maximum temperature occurred between the 17th and 19th, the highest being on the 17th, 75°·7 at Tunbridge, and 75°·0 at Regent's Park ; on the 18th, 74°·1 at Tunbridge Wells, 74°·0 at Hillington ; and on the 19th, 76°·0 at Isleworth, 75°·1 at Watford, and 74°·4 at London. The minimum temperature took place generally on the 9th, the lowest readings being 32°·8 at Alston, 34°·5 at Leaton, 35°·9 at Bridgetown, and 36°·2 at Burghill and Strathfield Turgiss. The mean daily range of temperature was 18°·1.

Atmospheric Pressure was below the average.

In *July* the mean pressure, reduced to sea-level, was 29·84 ins. The highest readings were in the South, and the lowest in the North. The maximum occurred in the South on the 16th, and in the other districts on the 27th ; the highest reading being 30·284 ins. at 9 p.m. on the 27th, at Llandudno. The minimum took place on the 12th, the lowest reading being 29·266 ins., at 9 p.m., at Alnwick.

In *August* the pressure was higher than in the previous month, the mean being 29·99 ins. The highest readings were in the South, and the lowest in the North. The maximum occurred on the 23rd, the highest reading being 30·369 ins. at 9 p.m., at Carmarthen. The minimum took place on various dates, the lowest readings being 29·158 ins. at 9 a.m. on the 10th at Alnwick.

In *September* the mean pressure was below the average, the mean being 29·82 ins. The highest readings were in the South, and the lowest in the North-west. The maximum occurred on the 13th, the highest reading being 30·341 ins., at 9 a.m., at Wakefield. The minimum took place on the 2nd, the lowest reported being 28·480 ins., at 9 a.m., at Carmarthen.

Rainfall was about the average.

In *July* both the rainfall and number of rainy days were slightly above the average. The monthly falls varied from 5·84 ins. at Seathwaite, 5·13 ins. at Downside, 4·63 ins. at Rounton, 4·58 ins. at Brampford Speke, 4·56 ins. at Alston, and 4·41 ins. at Stapleton, to 1·15 in. at Llandudno, 1·36 in. at Leaton, 1·61 in. at Hastings, and 1·70 in. at Blackpool. Falls exceeding 1·25 in. were recorded as follows :—on the 21st, 1·55 in. at Alston, 1·41 in. at Rounton, and 1·31 in. at Alnwick ; on the 23rd, 1·70 in. at Downside ; and on the 30th, 1·32 in. at Babbacombe, 1·27 in. at Brampford Speke, and 1·25 in. at Torquay. Thunderstorms occurred on the 2nd to the 5th, 7th,

8th, 13th to 17th, 19th to 21st, 24th, 25th, 30th, and 31st. Hail fell on the 14th, 15th, 20th, 21st, 23rd, 30th and 31st. A little snow fell at Buxton on the morning of the 15th.

In *August* both the rainfall and number of rainy days were below the average, especially in the Southern districts, very little rain falling from the 16th to the 26th. The monthly falls varied from 10·98 ins. at Seathwaite, 4·97 ins. at Stapleton, 4·80 ins. at Alston, and 3·42 ins. at Buxton, to 0·28 in. at Southend, 0·37 in. at Margate, 0·38 in. at Weymouth, 0·43 in. at Teignmouth, and 0·44 in. at Ramsgate and Tunbridge. The greatest falls occurred on the 8th, 12th, 15th, and 31st. At Seathwaite falls exceeding 1 inch were measured on the 7th, 8th, 9th, 12th, 13th and 14th, the heaviest being 1·52 in., on the 7th. At the other stations falls exceeding 0·75 in. were recorded as follows:—on the 8th, 0·85 in. at Downside, 0·78 in. at Buxton; on the 9th, 0·96 in. at Downside, and 0·91 in. at Alston; on the 10th, 0·77 in. at Bolton; on the 12th, 1·31 in. at Stapleton, 1·19 in. at Scaleby, and 0·76 in. at Alston; and on the 15th, 0·80 in. at Alnwick. Thunderstorms occurred on the 2nd, 7th, 8th, 10th and 14th.

In *September* the rainfall was considerably above that of August. The monthly falls varied from 13·07 ins. at Seathwaite, 7·64 ins. at Ashburton, 7·59 ins. at Bolton, 7·11 ins. at Buxton, and 7·03 ins. at Downside, to 1·70 in. at Lowestoft, 1·88 in. at Somerleyton, 2·22 ins. at Southend, and 2·94 ins. at Norwood and Tunbridge. Rain fell very generally from the 1st to the 10th, and from the 23rd to the 29th. The greatest daily falls occurred on the 1st, 10th, 20th, 23rd, 26th, and 29th. Falls exceeding 1·50 in. were recorded as follows:—on the 1st, 1·57 in. at Ashburton, and 1·56 in. at Seathwaite; on the 23rd, 1·90 in. at Ashburton, and 1·53 in. at Cardiff; on the 26th, 3·28 ins. at Seathwaite; and on the 29th, 2·34 ins. at Hillington, and 1·76 in. at Aspley Guise. Thunderstorms occurred on the 3rd, 10th, 15th to 18th, 20th and 22nd.

Wind.—In *July* the general direction of the wind was South or South-west from the 1st to the 13th, West or North-west from the 14th to the 28th, and South-west from the 29th to the 31st. In *August* the direction of the wind was chiefly West from the 1st to the 17th, North-east from the 18th to the 26th, and West from the 27th to the 31st. In *September* the direction of the wind was generally South-west from the 1st to the 10th, North-east from the 11th to the 19th, South-west from the 20th to the 29th, and North on the 30th. A heavy gale was experienced on the 2nd.

Fog occurred on *July* 3rd, 4th, 8th, 19th, 20th, 23rd to 25th, 27th, 28th, 30th and 31st; *August* 2nd, 4th, 5th, 13th, 19th to 28th, 30th and 31st; *September* 1st, 5th to 7th, 9th to 23rd, and 30th.

Halos were observed on *July* 3rd, 8th, 10th, 15th, 19th, 20th, and 29th; *August* 18th, 22nd, 26th and 27th; *September* 5th, 7th, 15th, 17th, 19th, 20th, 23rd and 25th.

The Great Ice-Storm of July 3rd, 1883, in North Lincolnshire. By John Cordeaux.

[Read before the Royal Meteorological Society, November 21st, 1883.]

The storm which swept across the western portion of the Lincolnshire North

Wolds on the evening of July 3rd, 1888, was undoubtedly the severest of any in the district within the present century.

Heavy and destructive thunderstorms passed over the North Wolds on the afternoon of Tuesday, July 3rd, accompanied by a deluge of rain, and in the neighbourhood of Grimsby with hail. The air was close, sultry, and oppressive; the sky obscured by heavy masses of slowly moving cloud which drifted in every direction, as if circling round some common centre. Looking South from the lowland near the Humber, these clouds appeared to rest on the distant Wolds. Dwellers on the hills state that some time before the outbreak of the storm every thing seemed wrapt in a thin blue haze or mist, accompanied by a remarkable stillness, as well as sultriness and oppression of the atmosphere.

The direction of the storm was nearly South-east to North-west, sweeping upwards from the low country between the Chalk and Oolite ranges. It first struck the southern slope of the Wolds near Caistor, and from thence travelled along the higher ridges of the hills, finally becoming exhausted at Barton-on-Humber. The first large farm swept by the hail was in the parish of Audelby, near Caistor. The storm then passed across Clixby, Grassby, Owmby, Searby, Somerby, Bigby, Barnetby, Kirmington, Melton, Croxton, Elsham, Wooton, Burnham, Bonby, Saxby, Barton, and Barrow. It traversed a distance of 15 miles, and having an average breadth of from 1 to 1½ mile, followed closely the line of the old hill road called Race Lane from Melton-Ross to Barton-on-Humber. At Melton-Ross it divided, one part of the storm passing over Wooton, the other wing over Elsham; both parts united again at Burnham. In this distance it devastated twenty large and several small farms, and the injury done to the growing crops in this the very garden of Lincolnshire, cannot be estimated at less than £20,000.

The storm commenced at about 9.20 p.m., with heavy drops of rain, increasing to a downpour, speedily followed, amidst the blaze of lightning and constant roll of thunder, by hail, or rather lumps of ice. An eye-witness remarked that they were not like hail-stones but "salt-cellars," another that they resembled "ducks' eggs." In fact they were solid masses of ice of various shapes and sizes, weighing from 2 to 6 ounces, and some measured 6 ins. in circumference. Many were striated with opaque lines; others had opaque cores coated with clear ice; others seemed a conglomeration of ice and hardened snow.

The advancing hail was for some time preceded by a noise compared to the rush of an express train, or the crushing of heavy waggons passing over a stony road. It crashed through the trees like discharges of grape-shot, and there might also be heard the lowing of terrified cattle, the bleating of sheep, and the wailing of stray cats.[1] In the town of Barton nearly every window pane with a South-east aspect was smashed, and the destruction to green-houses and garden glass was enormous. Not only ordinary glass but thick plate and glass roof-tiles were destroyed, and the former not merely broken but literally pounded into small fragments. Every where flowers and fruit were destroyed, gardens utterly wrecked, and the bark and branches of

[1] Writing from Barton a local correspondent says, "about 9 45 p.m., the bleating of sheep and lambs, the lowing of horned cattle, and the howling of stray cats, indicated the terror of the animals."

strong trees and shrubs broken and bruised, the ground being covered with the wreck of leaves and twigs. At Wooton Grange I was shown a drooping elm in the garden, the upper bark of the branches deeply scored and gashed, showing the white wood below. At this house also wood-work was marked and indented, and the colour-wash knocked from the exposed sides of the cottages and buildings, as if the walls had been scraped,

In the agricultural districts fields were left with scarcely an ear of corn standing, and clover ready for cutting crushed as if beneath heavy rollers. Breadths of wheat and barley in fields, some 40 acres in extent, the value of the grain in which might be estimated at from £10 to £12 per acre, were so entirely destroyed that scarcely a head remained upright, the straw being broken as if passed through a threshing machine. Pulse crops were cut to pieces, and will scarcely repay the price of clearing the ground.

The duration of the hail varied considerably in different localities, the maximum being about twenty minutes. So abundant was the fall, that ditches in the fields on the following day contained piles of hailstones 2 ft. in depth. In the valley of Deepdale hailstones lay several feet deep, and although the storm occurred on Tuesday, fragments of ice were picked up on the following Saturday.

The hail was both preceded and followed by a heavy downpour of rain; on each side of the storm along its entire length a perfect deluge of water descended, washing the roads bare, doing immense damage to the newly-sown turnips, and carrying the soil out of the fields.

In some cases half, or only the corner of a field was caught, the line between the two portions being marked distinctly as if with a knife. Equally remarkable is the way in which the hail has entirely destroyed all the glass forming the roof of a forcing house on one side, and left the other (inclined at a different angle) untouched. The hailstones descended at a sharp inclination from the South-east, so that those coming through the upper panes of a window struck the opposite side of a room; and at Melton-Ross a hailstone passing through a window broke a tumbler on the table. At the House at Melton High Wood, the strong painted canvas verandah was completely riddled, the hailstones then going through the window beneath.

Persons who were out of doors during the storm thought themselves fortunate in escaping with only cuts and severe bruises.

The destruction to animal life was great; rooks, partridges, and small birds were killed, and the next morning many wounded and disabled birds were seen beneath the hedgerows and thickets. Great numbers of hares were also killed, and when skinned the flesh was found to be blue and pulp-like from the pounding of the hail.

That evening at 9.30 p.m., at a distance of 25 miles from the storm-centre, the appearance of the clouds was most portentous. Packs of *cumulo-stratus* intensely black and covering nearly a third of the heavens were massed along the West and North-western horizon. The blaze of lightning was incessant; a rapid and continuous pulsation of intense light, resembling more than anything the quick opening and closing of the door of a furnace, illuminating the edges and hollows of the clouds,—rarely was a forked flash visible.

TEMPERATURE OF THE SOIL AT 9 A.M.

Station.	Depth below the Surface.	July.			August.			September.		
		Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.
		°	°	°	°	°	°	°	°	°
Aspley Guise	3 ins.	62·5	68·8	57·9	62·8	65·9	59·4	57·4	60·8	52·7
Babbacombe	6 ins.	62·0	65·3	59·3	63·0	65·5	60·6	59·6	61·6	55·7
Marlborough	6 ,,	61·4	67·0	56·9	61·9	65·0	58·5	56·9	60·6	53·7
Croydon	6 ,,	61·8	68·5	57·2	62·3	66·0	59·0	57·3	61·5	52·6
Aspley Guise	6 ,,	62·0	67·0	57·5	62·6	65·3	58·6	57·6	60·7	53·5
Alnwick	1 ft.	60·3	65·5	55·5	60·3	62·0	57·5	56·9	60·0	54·0
Rounton	1 ,,	58·3	61·0	54·5	58·8	61·0	57·0	56·0	58·0	54·0
Hodsock	1 ,,	59·9	62·8	57·2	59·5	61·6	57·0	57·4	59·0	54·9
Strelley	1 ,,	58·1	61·2	54·9	57·4	59·1	55·2	55·3	57·2	53·2
Marlborough	1 ,,	61·9	65·7	59·0	62·5	64·3	59·5	58·2	61·3	55·6
Cardiff	1 ,,	60·2	62·8	57·3	61·3	62·5	59·9	57·7	60·4	55·3
Babbacombe	1 ,,	62·2	64·6	60·0	63·4	65·2	61·4	60·6	62·4	57·6
Cullompton	1 ,,	60·5	63·1	58·2	61·6	64·0	59·4	58·4	60·6	55·0
Southampton	1 ,,	62·4	66·0	59·7	62·7	64·7	60·6	59·0	61·6	56·3
Worthing	1 ,,	63·3	67·2	60·2	63·9	66·3	60·4	59·8	63·8	57·0
Harestock	1 ,,	58·7	61·8	56·5	59·6	61·8	57·6	57·2	59·9	55·1
Croydon	1 ,,	61·9	67·5	58·0	62·5	65·2	59·1	58·4	62·0	55·0
Norwood	1 ,,	61·4	66·1	57·4	61·6	64·1	58·9	57·6	61·2	55·2
Isleworth	1 ,,	61·7	67·2	58·0	62·7	65·5	59·2	58·4	61·5	55·1
Regent's Park	1 ,,	61·1	67·0	56·8	62·0	64·5	58·4	57·6	61·0	54·5
Aspley Guise	1 ,,	61·8	66·2	57·9	62·5	64·8	59 2	58·0	61·2	54·2
Lowestoft	1 ,,	60·6	66·6	56·7	60·6	63·0	57·0	57·9	61·8	53·9
Marlborough	1½ ft.	61·7	64·1	59·4	62·3	63·7	60·6	59·0	62·0	56·9
Alnwick	2 ft.	61·2	63·0	59·5	61·0	62·0	58·0	58·9	60·5	57·0
Marlborough	2 ,,	60·5	61·9	59·0	61·1	61·9	60·1	58·9	61·4	57·6
Margate	2 ,,	60·5	64·2	56·0	60·9	63·2	59·5	59·3	62·0	58·0
Harestock	2 ,,	57·0	58·1	55·8	57·6	58·8	56·5	56·5	58·7	55·6
Isleworth	2 ,,	61·4	64·1	59·2	62·4	64·1	60·8	59·5	62·8	57·7
Aspley Guise	2 ,,	61·9	64·2	59·3	62·5	63·5	61·1	59·1	62·2	56·7
Lowestoft	2 ,,	60·7	64·6	57·0	60·8	63·0	58·7	58·8	62·0	56·0
Cardiff	4 ft.	55·2	55·6	53·8	56·7	57·5	55·7	56·7	57·5	56 2
Harestock	4 ,,	54·8	55·3	53·5	55·6	56·7	54·9	56 0	56·8	55·6
Regent's Park	4 ,,	58·5	60·2	57·5	59·2	60·5	58·0	58·6	60·5	57·0
Aspley Guise	4 ,,	59·0	59·9	58·0	59·9	60·5	58·9	58·5	60·4	57·5
Lowestoft	4 ,,	57·8	59·0	56·2	57·8	59·1	56·2	57·4	59·0	56·0

DURATION OF BRIGHT SUNSHINE.

Station.	Total amount.			Greatest amount on one day.			No. of days on which no Sunshine was registered.		
	July.	Aug.	Sept.	July.	Aug.	Sept.	July.	Aug.	Sept.
	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.			
Blackpool	191	171	123	12·6	12·7	11·1	0	3	3
Hodsock	149	163	106	12·9	12·7	10·3	0	1	5
Buxton	161	165	87	14·3	12·3	8·3	0	1	7
Strelley	139	161	103	10·5	12·3	9·8	1	2	5
Llandudno	149	152	113	11·9	12·6	8·8	1	1	3
Churchstoke	144	160	128	11·6	11·9	10·4	2	1	3
Marlborough	157	184	122	10·5	12·5	9·9	1	3	2
Cullompton	162	173	127	12·1	12·2	10·5	2	4	3
Southbourne	193	214	110	13·0	13·3	8·8	1	2	3
St. Leonard's	207	207	130	14·9	13·0	10·0	1	2	5
Harestock	160	201	126	10·1	12·5	10·4	1	0	3
Croydon	175	189	122	12·8	13·3	9·0	1	3	4
Kew	168	180	129	12·6	12·6	9·9	0	0	3
Greenwich	149	157	116	13·2	11·6	9·6	1	1	5
London, Bunhill Row	139	145	78	13·6	12·2	7·7	3	1	5
Aspley Guise	136	177	122	11·3	11 8	11·7	2	3	6
Hillington	175	180	118	14 1	10 7	9·0	1	1	5

Date.	JULY.											AUGUST.											SEPTEMBER.										
	Max. Temp.				Min. Temp.				Sunshine.			Max. Temp.				Min. Temp.				Sunshine.			Max. Temp.				Min. Temp.				Sunshine.		
	Old Street.	Regent's Park.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Bunhill Row.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Old Street	Regent's Park.	Greenwich.	Kew.	Bunhill Row.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Bunhill Row.	Greenwich.	Kew.
	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.
1	75·9	80·0	79·3	75·4	56·2	52·0	50·5	51·6	13·2	12·0	12·6	67·2	67·4	68·7	66·5	54·4	52·3	52·0	54·1	1·3	3·5	3·8	67·4	66·0	68·2	64·9	52·7	50·2	51·3	52·1	2·2	2·5	2·9
2	82·1	82·3	83·3	82·0	53·2	54·0	53·7	54·7	13·6	13·2	12·5	70·4	69·2	73·4	69·5	55·2	55·5	51·7	52·6	1·5	1·9	3·6	61·9	61·5	61·9	62·5	52·2	55·0	54·7	57·5	0·6	0·5	1·1
3	76·0	76·0	79·3	76·1	60·4	62·0	59·7	60·0	3·7	3·1	5·6	72·2	72·3	71·8	69·7	58·9	53·2	53·9	55·0	3·5	3·1	1·0	66·4	66·2	67·1	65·4	55·1	53·9	51·8	52·9	4·9	6·0	7·2
4	69·9	70·0	73·4	69·5	57·2	55·0	52·7	54·6	5·5	6·5	6·9	71·3	70·5	73·2	72·7	57·4	55·0	53·2	52·7	2·6	3·5	3·7	66·0	64·8	66·1	62·8	50·5	48·2	48·2	47·7	7·7	6·3	8·1
5	69·0	70·0	73·3	69·5	54·2	52·0	50·8	52·6	9·0	10·8	9·8	68·7	68·8	70·2	67·8	58·2	56·8	56·9	57·7	0·2	0·2	0·1	62·2	63·5	64·1	62·3	48·5	47·2	46·0	44·6	2·8	4·0	4·7
6	73·3	73·0	74·7	73·6	55·4	50·8	49·6	50·4	4·5	6·4	6·8	69·4	70·0	71·3	68·0	60·3	59·0	57·5	58·0	1·0	1·0	1·1	57·4	56·9	59·0	56·7	46·6	42·3	41·5	42·1	0·1	..	..
7	71·0	71·5	73·4	71·8	59·5	57·0	55·4	57·1	3·7	4·2	4·4	70·7	71·2	72·0	69·9	54·4	52·4	52·0	54·7	8·3	4·9	10·5	61·7	61·0	62·3	61·3	49·7	47·2	47·6	47·5	..	0·5	0·6
8	74·2	75·2	78·1	73·9	59·3	57·0	57·0	57·4	5·8	5·5	5·8	61·9	63·5	62·8	60·9	53·3	50·4	49·7	51·2	1·0	0·9	0·9	65·9	65·5	66·1	64·2	52·7	50·2	48·6	46·6	5·0	4·8	6·2
9	71·5	72·0	76·1	72·3	59·4	58·5	56·4	56·8	1·3	1·6	2·6	67·2	66·0	69·3	65·7	56·5	55·0	51·5	52·5	10·3	9·6	12·2	66·6	67·5	70·1	67·0	46·3	41·2	41·6	40·0	5·0	9·6	9·9
10	72·4	73·0	74·1	69·7	55·8	53·8	52·7	54·1	6·6	6·2	6·7	67·2	66·0	68·9	65·6	51·4	49·5	49·7	50·2	12·2	11·0	12·6	65·4	65·5	65·4	65·7	54·2	52·5	50·8	51·7	..	..	..
11	69·6	72·0	73·7	70·0	57·7	56·0	55·5	56·6	6·7	7·1	7·3	67·8	67·5	72·3	65·5	53·3	56·0	51·5	51·3	5·8	7·3	4·3	60·6	61·0	60·1	59·6	56·2	55·0	54·3	54·8	..	..	..
12	64·8	65·0	64·7	66·0	58·2	56·6	53·7	55·7	..	..	0·6	69·8	70·5	74·4	70·4	51·0	47·5	46·3	46·0	5·6	6·1	6·5	70·4	70·8	72·8	69·2	55·0	53·8	53·0	51·5	3·1	3·4	4·5
13	70·3	70·0	72·3	69·6	55·2	53·0	52·7	53·6	8·5	8·7	9·6	81·1	81·2	83·3	78·6	57·5	54·0	54·7	53·9	10·2	10·9	11·5	68·9	68·8	70·4	66·5	54·7	53·4	52·5	50·6	3·2	3·3	3·6
14	63·4	65·0	65·0	65·2	50·4	53·0	51·0	52·3	1·0	2·2	3·1	74·4	74·5	77·2	72·6	63·4	61·8	57·0	59·5	11·8	11·6	11·6	71·4	70·1	73·1	69·1	53·2	51·8	52·6	53·1	4·1	6·1	4·9
15	62·6	63·2	65·1	61·5	48·7	46·2	46·8	46·6	8·6	7·5	11·1	68·3	68·4	70·0	66·7	59·0	56·5	55·3	56·8	1·8	4·5	4·1	67·5	69·5	66·0	67·4	53·7	52·5	51·6	51·6	1·0	3·7	6·7
16	62·5	61·5	62·3	61·4	45·9	43·0	43·6	44·1	4·6	4·1	4·7	67·2	67·0	67·5	64·8	54·2	52·0	49·0	50·0	6·0	4·9	9·0	71·4	71·8	73·2	69·7	52·0	49·0	48·1	49·7	3·8	6·6	6·7
17	63·5	62·8	64·0	63·0	55·4	53·8	52·3	52·5	0·4	0·4	0·6	67·4	68·0	70·4	68·6	54·2	48·3	47·9	47·7	0·2	0·4	0·6	73·9	75·0	77·1	72·8	50·1	49·8	48·6	47·6	2·5	6·5	4·8
18	63·5	63·5	64·5	63·0	51·2	49·0	49·7	49·6	2·0	2·1	2·9	75·4	78·0	76·1	75·8	59·1	58·7	55·6	54·9	4·7	4·0	9·2	73·9	73·5	75·1	73·2	52·4	50·8	49·8	48·9	2·6	7·8	7·8
19	65·2	65·5	69·4	65·3	51·7	46·0	46·4	48·5	2·5	3·2	4·2	74·4	74·0	79·1	75·6	56·2	54·5	52·5	51·3	3·0	4·8	4·8	74·4	74·8	75·1	73·6	55·2	51·5	50·8	54·5	5·7	6·1	8·0
20	63·9	64·0	65·1	64·5	51·2	48·3	47·6	47·6	..	0·5	0·9	78·2	80·0	81·9	77·8	52·2	49·5	46·4	48·5	5·7	6·4	7·0	64·0	63·1	62·8	64·3	56·0	53·5	52·7	53·6	..	..	0·4
21	61·2	62·0	64·1	60·9	49·4	52·2	50·2	51·7	4·2	4·4	5·9	80·2	81·0	85·1	79·2	59·2	57·0	58·3	58·5	2·8	4·5	6·2	60·9	62·0	59·0	64·6	54·1	52·0	49·4	51·2	..	0·3	1·8
22	65·1	63·8	65·2	63·5	50·2	48·5	48·2	48·6	1·1	0·9	1·4	75·1	75·5	75·3	74·0	62·4	58·5	58·6	58·2	0·7	0·2	1·1	61·4	61·8	60·7	61·0	52·2	50·0	49·0	51·1	0·1	..	0·9
23	63·2	63·0	66·2	63·8	50·1	47·4	47·7	48·3	0·9	2·6	2·4	75·0	74·8	77·0	72·1	54·2	52·5	50·7	51·9	10·5	11·1	11·8	64·9	66·0	67·5	65·0	48·2	42·5	42·1	44·1	2·1	8·4	5·0
24	66·4	66·6	68·5	64·6	52·0	50·0	51·6	51·7	5·6	5·6	6·7	77·2	75·5	76·4	73·0	52·6	49·0	44·8	47·2	10·8	11·1	11·1	67·4	67·8	67·3	67·2	54·8	51·5	53·4	55·7	1·5	1·9	1·7
25	65·0	66·4	66·2	64·8	52·2	50·0	50·4	50·2	1·7	1·7	2·6	76·9	76·0	77·4	74·8	52·9	51·3	50·7	49·6	6·2	7·7	7·5	68·5	67·2	69·2	65·8	57·3	55·2	54·3	54·9	3·6	6·0	6·2
26	67·8	68·5	68·5	66·7	53·0	50·2	50·6	50·8	4·9	5·5	5·1	78·5	78·3	78·4	76·1	51·2	51·5	49·1	50·5	5·5	7·9	9·1	68·6	68·5	69·7	66·6	56·2	54·5	53·9	54·6	5·1	5·3	5·8
27	64·1	65·0	66·5	62·6	54·0	48·0	49·9	48·8	3·6	3·0	3·1	76·4	75·3	77·4	75·1	58·3	54·3	54·8	53·7	1·0	0·3	0·3	63·7	63·0	65·2	62·8	53·8	51·8	51·4	51·0	3·3	4·9	5·8
28	72·3	72·5	73·6	71·3	53·0	51·5	52·5	52·7	5·6	7·0	10·4	76·0	75·2	78·4	73·7	60·7	58·8	58·0	59·1	7·7	9·0	10·3	64·1	63·5	64·2	62·0	51·2	49·5	49·5	49·8	3·2	5·2	6·0
29	71·0	70·3	74·0	69·7	52·3	46·5	46·6	47·9	7·5	8·1	7·7	71·4	72·5	72·1	70·5	60·2	58·5	56·7	58·1	0·8	0·2	1·8	58·4	59·5	59·4	57·6	49·8	48·0	47·0	47·9	3·8	5·7	6·8
30	65·4	65·3	69·8	67·3	53·9	53·0	52·6	52·7	..	0·3	0·2	71·4	71·3	76·6	69·8	58·2	56·5	54·5	56·6	2·5	4·3	2·9	55·4	56·8	54·9	55·5	45·4	44·0	44·2	46·1	1·2	0·7	0·9
31	72·9	71·5	76·6	71·2	56·2	54·0	53·5	52·7	3·0	4·3	4·0	62·9	62·5	64·7	63·3	52·7	55·0	55·6	54·9	..	..	0·1	..	..	..	..	..	..	..	..	..	..	..
Means	68·4	68·7	70·7	68·1	54·0	51·9	51·3	52·0	4·5	4·8	5·4	72·0	72·0	74·0	70·8	56·2	54·2	52·8	53·4	4·7	5·1	5·8	65·7	65·8	66·4	64·9	52·3	50·3	49·7	50·2	2·6	3·9	4·3

NOTE.—At Old Street and Regent's Park the thermometers are read at 9 a.m., the maximum temperature being entered to the previous day; while at Greenwich the thermometers are read at 9 p.m., and at Kew at 10 p.m., the temperature being entered to the civil day. At Old Street and Regent's Park the thermometers are mounted in Stevenson screens; at Greenwich on a Glaisher stand; and at Kew in the thermograph screen.

Abstract of Meteorological Observations for the Month of JULY, 1883.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of					Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.															
Alnwick.....	29·775	57·0	53·1	55·1	49·4	64·5	43·8	23	74·9	1	53·8	51·5	80	89	8·0	8·3	4·15	1·31	21	20	0	0	21	0	7	1	2	6	6	4	5	12	19
Cramlington	·773	56·6	53·8	55·2	48·3	63·0	42·0	15, 16, 23	74·7	1	53·5	52·1	80	88	7·7	6·7	4·22	1·08	2	22	0	0	12	0	6	7	3	4	7	9	11	13	2
Scaleby.....	·774	57·8	54·7	56·3	49·1	66·7	42·6	14	73·4	1	55·4	53·8	85	94	8·6	7·3	3·21	·60	2	20	0	0	15	1	5	2	3	0	5	16	12	4	15
Rounton	·785	57·1	54·0	55·5	48·7	64·0	37·3	20	73·3	2	54·3	52·6	82	90	..	..	4·63	1·41	21	22	0	..	..	..	9	3	0	0	7	15	5	9	14
Scarborough..	·788	58·8	55·8	57·3	51·9	63·6	45·3	23	73·0	1	55·0	53·2	77	83	7·2	6·4	2·98	·77	2	15	0	0	7	0	10	2	4	7	12	7	12	7	1
Wakefield....	·802	59·0	56·2	57·6	50·5	65·4	39·2	20	75·0	2	54·5	53·2	73	81	6·9	5·3	4·10	1·19	2	16	0	0	6	0	2	3	2	4	12	11	20	8	0
Buxton	....	56·3	52·0	54·1	47·7	63·2	38·1	24	74·5	2	52·6	50·4	77	89	8·0	6·5	4·26	·90	21	16	1	0	8	0	1	0	4	4	13	7	22	11	0
Cheadle.....	·825	56·0	54·0	55·0	48·8	63·1	41·5	15	74·1	2	54·5	53·1	90	94	7·4	6·8	2·63	·57	20	20	0	0	8	1	7	1	2	4	14	4	9	20	1
Llandudno ..	·833	59·3	56·2	57·8	53·1	63·0	47·8	20	67·8	2	55·3	53·5	76	82	7·5	7·2	1·15	·30	4	13	0	2	17	1	9	5	2	1	5	15	16	9	0
Leaton	·842	59·4	53·9	56·7	48·4	66·1	38·2	28	77·0	2	56·5	..	82	..	7·9	..	1·36	·31	20	19	0	..	..	..	..	..	..	..	..	..	..	..	..
Churchstoke..	·853	58·1	52·7	55·4	48·5	64·1	38·8	15	74·2	2	54·4	50·9	78	87	8·6	6·4	2·20	·91	20	18	0	0	9	0	0	1	1	7	9	22	6	16	0
Cheltenham...	·853	59·9	56·0	58·0	50·1	66·1	39·8	15	77·8	2	57·3	54·6	84	91	7·3	6·3	3·67	1·07	20	19	0	0	11	0	1	2	0	1	19	7	21	4	7
Carmarthen ..	·858	58·9	54·6	56·7	51·3	63·7	43·3	15	69·7	8	55·3	52·9	78	88	8·6	7·2	3·32	·71	20	25	0	2	18	0	13	1	0	4	9	12	10	8	5
Babbacombe..	·904	60·4	55·2	57·8	51·5	65·0	46·0	15	72·4	28	56·8	53·4	79	88	7·2	6·4	4·30	1·32	30	23	0	0	9	1	4	3	1	1	4	22	16	11	0
Downside	·882	57·8	54·2	56·0	49·9	63·5	42·0	15	74·4	2	54·6	52·7	80	90	7·1	6·9	5·13	1·70	23	19	0	1	11	2	3	0	0	1	13	21	17	7	0
Marlborough	·880	59·6	55·1	57·4	49·7	65·8	39·8	16	76·4	2	55·6	53·2	76	87	8·5	6·9	3·67	·75	23	18	0	0	17	0	12	0	0	1	11	16	6	7	9
Strathfield T.	·885	61·4	56·5	59·0	50·2	68·7	41·7	16	81·7	2	56·8	54·4	73	87	8·1	7·0	2·95	·99	31	18	0	0	9	0	2	1	0	7	3	23	13	13	0
Norwood	·876	61·3	57·4	59·3	51·8	68·4	42·9	16	82·4	2	55·7	54·3	68	80	7·5	6·6	2·06	·26	23	17	0	0	11	0	3	0	0	4	11	14	16	10	4
Croydon	·880	60·7	57·0	58·9	51·5	67·4	43·1	16	80·2	2	55·1	53·9	69	80	7·7	6·8	2·30	·51	21	18	0	0	13	0	2	0	1	4	10	17	16	5	7
Southbourne	·887	59·8	56·4	58·1	53·0	64·4	45·4	15	71·8	28	56·2	54·0	79	84	6·5	5·0	3·11	·80	15	17	0	3	3	0	3	0	0	5	8	21	8	11	6
Margate	·876	60·3	56·6	58·5	52·4	66·5	46·4	23	75·2	3	56·0	54·5	75	86	7·2	5·9	2·55	·55	12	17	0	1	12	0	1	0	3	3	9	19	21	3	3
Hillington.....	·831	59·9	55·4	57·6	50·2	67·9	38·5	20	81·5	3	57·6	54·5	85	94	8·0	7·9	3·40	·69	20	22	0	0	17	0	7	1	1	7	5	18	10	13	0
Lowestoft	·821	60·2	56·6	58·4	51·5	65·9	42·3	20	74·0	1	56·3	54·3	77	85	7·9	6·2	3·82	1·20	14	19	0	2	12	0	1	1	2	4	2	11	23	17	1
Dublin	·830	58·7	56·4	57·6	52·5	63·3	45·4	15	69·2	28	54·4	53·6	74	82	7·0	7·6	2·22	·57	23	22	0	0	11	0	4	2	3	6	15	3	10	17	2
Killarney	29·848	57·0	54·4	55·7	50·7	61·4	38·3	28	66·3	28	54·7	52·9	85	89	8·7	8·5	4·86	·70	8	26	0	0	24	1	2	0	1	0	4	13	12	16	14
Columns	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

Phenomena observed at the Stations during JULY, 1888.

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Alnwick	..	● T	● T	●≡	◍ϟ T	●	◍	..	●	.	●	●	●	●	..	◍	◍ T	..	..	●▲ϟ	●	●	..	●	●	●	●	..	..	≡	..
Cramlington	..	●ϟ	◍ϟ≡	◍ϟ≡	◍	◍	..	●	●	..	●	●	●	● T	◍	●	◍	●	◍	●ϟ	●	◍	●	◍	◍ T	..	..	..	..	≡	≡
Scaleby	..	● T	◍ϟ	◍ T	●	◍	●	●	..	◍	◍	◍	◍	◍	..	●	●	●	●	◍	◍	..	●	..	◍	..	..	..	..	..	..
Rounton	..	◍ϟ	◍ϟ	◍≡ϟ	● T	◍	..	●	●	◍	◍	◍	..	●	●	◍	◍	●	●	◍	●	..	..	●	◍ϟ	◍	..	..	..	●	..
Scarborough	..	●ϟ	●ϟ	◍≡ϟ	..	.	..	◍	..	◍	●	●	..	..	..	●	◍	●	..	●	●	●	..	..	◍≡	◍	..	..	..	..	≡
Wakefield	..	●ϟ	ϟ	●	●	●	..	..	..	◍	◍	◍	..	..	●ϟ	●	●	..	..	●	●	●	..	..	..	◍	..	..	..	●	●
Buxton	..	◍ϟ	ϟ	●ϟ	..	..	..	◍	..	●	◍	◍	..	..	◍✳	●ϟ	●ϟ	●	..	●	●	◍	..	●	●	..	..	..	..	..	●≡
Cheadle	..	● T	T	◍ϟ	◍	..	◍	◍	..	◍	◍	◍	◍	●	●	◍	◍	..	..	◍ T	●	◍	..	..	●	●	..	..	●	●	..
Llandudno	..	..	..	●	..	◍	●ϟ	◍	●	..	◍	●	..	..	..	●		◍	..	●	●	..	..	..	..	..	..	..	●	●	..
Leaton	..	●	T	◍ϟ	T	●	◍	●≡	●	◍	●	◍	●	..	..	..	●	●	..	◍	●	..	●	●	..	..	●	..	●	●	..
Churchstoke	◍	..	..	●	..	◍	..	◍	..	◍	●	◍	●	●	..	◍	●	●	..	●	●	..	◍	..	..	..	..	..	●	●	●
Cheltenham	..	●ϟ	T	●ϟ	●	◍	..	●	..	◍	◍	◍	●ϟ	◍ϟ	●▲	●	..	..	●	●	●	..	●	..	..	..	..	..	◍	◍	●
Carmarthen	●	●	●	◍	●	●	●	◍	●	◍	●	●	◍	ϟ	◍	◍	●	..	●	◍	◍	◍	◍	●	..	..	..	●	◍	● T	..
Babbacombe	..	◍ϟ	●ϟ	●	..	◍	●	●	◍	◍	◍	◍	◍	●▲ T	●	..	..	●	●≡ψ	●≡	◍	●	●≡	ϟ	..	..	●	..	●	●▲ϟ	●▲ T
Downside	..	ϟ	ϟ	●	●	●	●	◍	..	●	◍	◍	● T	◍ϟ	●ϟ	●	●	..	●	●	◍	◍	●▲	≡ϟ	..	..	≡	..	◍	..	..
Marlborough	..	●	ϟ	..	◍	◍	●	●	..	◍	◍	◍	● T	● T	◍▲ϟ	..	..	..	◍	◍	● T	◍	●	..	..	..	..	..	●	..	● T
Strathfield T.	..	◍ϟ	..	●	..	●	◍	◍	..	◍	◍	◍	◍	● T	◍	..	..	..	○	●	● T	◍	●	..	..	..	..	..	◍	●	●ϟ
Norwood	..	●ϟ	◍ϟϟ○	●	..	..	●	◍ϟ○	..	○	●	●	..	◍	●ϟ○	..	..	..	..	●	●ϟ	●	●	≡	●	..	◍≡	..	◍○	..	● T
Croydon	..	●ϟ	●ϟ	..	..	..	..	◍ϟ	..	◍	◍	◍	..	● T ϟ	●▲ T ϟ	..	◍	..	..	◍	●▲ϟ	●	●	≡ϟ	◍	..	●	..	●	◍
Southbourne	..	◍ϟ	..	..	..	◍	◍	●	..	●	..	◍	●	●	◍	..	◍	..	●	●	●	●	●	..	..	..	..	..	◍	●	..
Margate	..	●	●ϟ	◍	..	..	..	●	..	..	●	◍	..	●ϟ	●ϟ	..	◍	..	..	◍○	●	..	●	..	●	●	●	≡	●	..	●ϟ
Hillington	..	●	● T ϟ	●ϟ	..	..	..	◍	..	..	●	◍	●	●ϟ	◍ϟ	●	◍ T	..	● T	●	●▲ϟ	◍	◍	◍	●ϟ	●	●	..	●	●	T
Lowestoft	..	..	◍	◍ϟ	..	..	●	●○	..	..	..	●	◍	◍ϟ	◍	●	◍	..	◍ψ	◍○	●	◍	◍	..	●	●	..	..	●	..	◍ϟ
Dublin	..	●	●	◍	● T	◍	◍	●	..	●	●	◍	◍ T	●	◍	●	●	..	..	●	◍▲ T	●	●	..	◍	..	..	..	●	●	..
Killarney	●	●	◍	●	◍	◍	◍	●	●	◍	◍	◍	◍	●▲	◍	●	●	●	●	●	◍	◍	●	..	..	..	≡	●	●	..	●

Explanation of the Symbols.—● indicates rain; ✳ snow; ▲ hail; ≡ fog; ϟ thunderstorm; T thunder; ϟ lightning; ○ solar halo; ψ lunar halo: Ψ aurora.

Abstract of Meteorological Observations for the Month of AUGUST, 1883.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of					Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.														
Alnwick	29·891	58·3	54·2	56·2	49·9	66·8	44·4	18	74·5	24	54·6	52·4	78	88	7·0	4·7	2·20	·80	15	12	0	3	7	0	4	0	1	4	6	14	16	5	12
Cramlington	·896	58·1	54·5	56·3	48·0	65·6	41·4	10, 16	74·5	25	54·8	52·8	80	88	6·2	5·4	3·02	·74	15	11	0	1	5	0	2	1	0	3	2	15	17	21	1
Scaleby.....	·896	57·8	55·0	56·4	48·9	64·8	39·5	12	71·8	25	55·7	54·1	87	94	7·4	5·6	3·73	1·19	12	15	0	3	10	2	0	0	0	1	2	33	10	0	16
Rounton	·926	58·5	55·5	57·0	48·8	65·8	39·8	12	72·8	24	55·1	53·8	79	89	..	..	1·52	·34	12	14	0	..	..	3	1	0	0	2	4	23	11	9	12
Scarborough	·930	60·0	57·6	58·8	52·9	65·5	47·2	17	72·0	4	55·7	54·2	75	79	6·5	5·3	1·22	·48	8	12	0	2	6	0	4	0	1	1	8	11	21	14	2
Wakefield....	·952	60·5	57·6	59·0	50·8	68·0	43·1	17	75·4	25	55·8	54·6	73	81	..	..	1·53	·48	3	12	0	..	..	..	1	0	1	1	9	12	29	9	0
Buxton	·986	58·2	52·4	55·3	47·1	65·1	40·0	19	72·4	13	53·9	51·0	74	90	7·4	6·5	3·42	·78	8	13	0	2	11	0	0	0	1	2	1	17	16	19	6
Cheadle	·990	57·1	55·2	56·2	50·0	65·0	45·2	9	72·7	13	54·3	53·3	82	87	6·3	4·6	2·10	·70	8	16	0	4	9	1	6	0	5	2	5	11	17	12	4
Llandudno ..	29·976	60·4	57·5	58·9	53·9	64·6	48·8	24	69·0	25, 26	56·5	55·1	77	85	7·4	6·0	1·82	·37	14	13	0	5	15	2	3	3	3	0	5	7	35	6	4
Leaton	....	60·4	56·7	58·5	48·9	69·0	40·0	19	78·0	13	56·6	54·9	77	88	..	..	1·78	·70	31	11	0	..	..	..	..	..	..	..	..	..	..	..	..
Churchstoke..	30·008	59·5	55·2	57·4	49·6	67·5	40·1	19	75·9	13, 25	55·6	53·4	77	88	7·1	7·0	1·09	·34	8	12	0	1	13	2	2	1	0	4	4	16	23	12	0
Cheltenham ..	·010	61·4	58·2	59·8	50·7	68·7	40·0	23	76·1	13	59·3	57·1	87	93	6·3	5·6	·80	·21	31	12	0	3	8	0	0	0	0	2	1	15	21	3	20
Carmarthen	·032	61·3	57·2	59·3	51·4	65·7	41·2	19	74·2	24	57·8	55·4	79	88	7·5	5·7	2·00	·65	7	21	0	1	12	2	10	0	2	2	15	8	17	5	3
Babbacombe..	·069	62·2	57·1	59·7	53·1	67·8	47·1	12	75·9	27	57·9	55·0	75	87	7·3	5·7	·75	·29	31	15	0	2	10	2	2	5	3	2	1	12	28	8	1
Downside	·027	59·8	56·7	58·3	52·1	65·7	46·4	25	75·0	25	56·5	55·1	80	89	5·7	6·5	3·15	·96	9	17	0	5	9	0	0	2	0	0	1	21	26	12	0
Marlborough	·035	61·8	57·0	59·4	51·2	69·2	43·3	19	75·7	13	58·2	55·3	79	89	5·8	5·2	·97	·49	8	12	0	4	7	0	5	4	3	1	5	6	19	19	0
Strathfield T.	·044	62·8	57·7	60·2	49·7	72·4	39·6	11	81·0	21	58·3	55·4	74	85	6·3	5·6	·64	·27	31	11	0	3	10	0	2	4	3	3	3	24	15	7	1
Norwood	·031	62·5	60·0	61·3	54·0	71·8	45·0	24	81·6	21	57·4	56·4	71	79	6·4	4·8	·65	·28	31	14	0	5	9	0	2	4	0	1	8	13	19	2	13
Croydon	·036	62·0	59·5	60·7	53·0	71·0	42·3	20	80·6	21	57·0	55·8	72	78	6·9	4·7	·59	·29	31	8	0	4	9	1	1	4	2	0	7	18	17	2	11
Southbourne	·046	62·5	59·0	60·7	54·1	68·3	45·2	19	77·0	26	57·5	56·6	72	85	5·2	4·8	·69	·27	31	12	0	7	7	1	4	3	2	3	3	10	18	12	7
Margate	·030	62·7	59·6	61·1	54·9	68·4	45·2	17	77·9	13	58·4	57·1	75	84	6·6	4·7	·37	·12	15	9	0	5	7	0	2	5	2	3	8	20	8	2	12
Hillington ..	30·007	62·2	56·3	59·3	49·2	69·3	40·3	12	81·3	13	58·3	54·9	77	91	6·6	5·6	1·70	·38	2	12	0	2	9	0	6	2	4	2	2	12	18	15	1
Lowestoft	29·980	61·9	58·5	60·2	52·2	68·0	42·5	16	77·0	14	57·3	56·1	74	85	6·8	6·1	1·03	·26	6	12	0	4	14	1	3	3	5	4	3	8	21	10	5
Dublin	·974	59·6	57·6	58·6	53·4	65·4	48·0	12	71·4	26	55·9	55·3	78	85	6·6	5·1	3·31	1·04	6	14	9	3	7	0	1	0	3	3	6	9	28	7	5
Killarney	29·999	58·9	55·7	57·3	51·6	63·7	40·7	18	70·1	25	56·7	54·6	86	89	8·7	7·3	5·30	1·51	12	18	0	0	17	6	4	0	0	1	2	8	19	10	18
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

PHENOMENA OBSERVED AT THE STATIONS DURING AUGUST, 1883.

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Alnwick	..	●≡ϟ	..	..	..	..	●	●	●	..	..	◒	●	●ϟ	◒	..	..	..	..	≡	..	ψ	≡	..	..	◒	◒	●	●	..	..
Cramlington	..	●ϟ	..	..	..	..	●	●	●	◒ϟ	..	◒	◒≡	●	◒	..	..	..	..	≡	≡	ψ	..	..	..	◒	..	●	..	≡	..
Scaleby	..	..	..	●	..	◒	●	●	●	●	..	◒	●	●	◒	..	●	..	..	..	..	..	..	..	..	●	◒	●	..	◒	..
Rounton	◒	◒≡ϟ	..	●	..	●	●	◒	..	◒T	..	◒	◒	●ϟ	◒	..	..	..	..	..	..	..	..	..	..	◒	..	●	◒	..	T
Scarborough	..	◒T	..	..	..	●	●	●	..	●	..	●	..	●	●	..	..	..	..	●	..	≡	..	..	..	●	..	●	..	..	●
Wakefield	..	..	◒	..	..	●	●	●	●	●	..	●	..	●	●	..	..	..	..	◒	..	..	..	..	..	..	..	◒	..	..	●
Buxton	..	..	..	..	●	●	●	●	●	◒	..	●	..	●	●	..	●≡	..	..	●	..	..	..	..	..	..	..	◒	..	..	●
Cheadle	..	T	..	●	●	●	◒ϟ	◒	●	◒	◒	●	◒	..	◒	●	●	..	..	●	..	..	..	..	..	..	..	◒	..	..	●
Llandudno	..	..	..	◒	●	●	●	◒	●	●	..	●	..	●	◒	●	..	..	..	●	..	..	..	..	..	..	..	..	◒	..	..
Leaton	..	●	◒	●	●	..	●	●	●	●	..	◒	..	..	..	..	..	..	..	..	..	..	..	..	◒	..	..	..	..	..	●
Churchstoke	..	●	..	◒	..	◒	◒ϟ	●	◒	●	..	◒	●	●	●	..	T	..	..	..	..	..	..	..	..	..	..	..	..	..	●
Cheltenham	..	●	..	●≡	●	◒	●	..	◒	◒	..	..	●	●	◒	..	..	..	..	..	..	..	..	..	..	..	..	..	◒	..	●
Carmarthen	..	●	◒	●	●	◒	●	●	..	◒	..	◒	●	●	●	◒	●	..	..	◒	..	..	..	..	..	◒	◒	●	◒	◒	●
Babbacombe	◒	●	..	..	●	◒ϟ	..	●	●	◒	●	..	●	●	◒	●○	..	ψ	○ψ	≡	..	●	..	..	..	○	○	..	..	◒	●≡
Downside	..	●	◒	..	●	●	●	◒	●	●	..	..	..	●	●	..	●	..	..	..	..	●≡	..	≡	≡	≡	◒	◒	◒	●	●
Marlborough	..	..	◒	..	●	●	T	●	..	●	..	..	..	●	●	●	..	..	..	..	≡	●	..	..	≡	..	..	◒	..	◒	●
Strathfield Turgiss	..	●	..	●≡	●	●	◒	●	..	..	..	..	..	..	●	..	●	..	≡	≡	..	●	≡	≡	≡	..	..	..	..	◒	●
Norwood	..	●	..	●≡	◒≡	●ϟ	..	●ϟ	..	●	..	..	..	●	◒	◒	●	..	..	≡	≡	●≡	≡	≡	≡	≡	≡	≡	◒	●	●≡
Croydon	..	◒	..	●≡	●	..	..	●	..	..	..	..	..	..	◒	●	●	ψ	≡	≡	..	..	≡	≡	≡	≡	..	..	..	..	●≡
Southbourne	◒	..	.	●	●	●	..	●	●	●	◒	..	..	●	..	●	..	ψ	≡	..	..	..	..	..	..	..	..	..	..	◒	●
Margate	..	..	..	●	..	●	..	●	..	●	..	..	..	●	●	..	..	..	..	.	..	●	..	..	..	..	..	..	..	◒	●
Hillington	..	●ϟ	..	●	●	◒	◒ϟ	●	..	..	◒	..	..	..	◒	..	●	..	..	..	..	●	..	..	≡	..	◒	..	..	..	●
Lowestoft	..	◒	..	..	●	●	●	◒	..	●	..	●	..	..	●	..	..	..	..	≡	≡	●T	..	..	..	●	◒	..	..	..	●
Dublin	..	..	..	●	●	●ϟ	●	●	●ϟ	●	..	◒	●	●	..	●≡	..	ψ	..	..	..	..	..	..	..	◒	..	◒	●	..	..
Killarney	◒	●	◒	..	●	●	●	●	●	●	●	◒	●	●	◒	●	ψ	ψ	●	◒	..	..	..	..	≡	..	..	..	..	..	●

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✱ snow; ▲ hail; ≡ fog; ϟ thunderstorm; T thunder; ∠ lightning; ○ solar halo; ψ lunar halo; Ψ aurora.

Abstract of Meteorological Observations for the Month of SEPTEMBER, 1888.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of						Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.															
Alnwick	29·784	53·4	51·3	52·4	47·7	61·4	39·5	23	70·5	16	51·4	50·1	86	91	8·5	6·9	4·23	·93	20	20	0	0	16	0	6	2	0	4	6	7	8	8	19
Cramlington..	·778	53·8	51·4	52·6	47·6	59·0	39·0	5	65·8	19	51·9	50·3	87	93	7·9	6·7	3·99	·81	20	24	0	0	14	1	5	14	2	6	6	8	5	13	1
Scaleby	·769	54·7	51·6	53·1	47·1	62·4	38·5	9	70·0	13	53·0	50·7	88	94	7·9	6·1	4·12	·76	26	21	0	1	12	5	1	10	9	5	2	10	10	2	11
Rounton	·787	54·2	52·3	53·3	47·6	60·3	37·8	9	69·3	17	52·5	51·3	88	93	7·7	7·4	2·54	·38	20	22	0	1	14	4	8	10	3	3	5	13	3	4	11
Scarborough..	·781	55·8	54·1	55·0	50·7	60·3	40·5	30	65·9	25	53·5	52·5	85	89	7·2	6·5	3·97	1·10	20	19	0	0	12	1	6	6	4	5	4	4	14	6	11
Wakefield	·796	55·6	53·7	54·7	49·5	62·3	42·1	6, 17	71·6	18	53·0	52·0	83	88	7·9	7·3	4·83	1·13	28	21	0	0	14	1	10	3	8	8	4	6	15	6	0
Buxton	·810	54·6	50·1	52·4	45·6	60·3	36·9	9	71·6	18	52·2	48·7	84	90	7·7	6·8	7·11	·96	3	18	0	1	13	0	2	7	8	6	2	15	8	7	5
Cheadle ...	·807	53·8	53·1	53·4	48·3	60·9	43·2	6	72·1	18	52·1	51·8	88	91	6·5	6·7	6·56	1·18	2	20	0	4	12	8	2	6	9	9	4	9	8	6	7
Llandudno ..	·802	57·7	55·9	56·8	51·9	61·1	46·0	6	68·6	19	54·5	53·7	80	85	6·5	7·1	3·38	·59	20	19	0	3	13	3	8	4	6	7	9	5	14	7	0
Leaton	....	54·8	52·6	53·7	46·5	62·6	34·5	9	74·5	17	53·1	51·5	88	92	..	..	4·87	·90	2	20	0	..	..	..	..	..	..	..	..	..	..	..	..
Churchstoke..	·827	54·2	51·9	53·0	46·7	62·2	37·0	23	73·0	17	52·0	50·4	85	90	7·2	6·7	5·48	1·06	10	17	0	2	14	2	2	8	1	8	6	9	9	11	6
Cheltenham ..	·820	56·1	53·4	54·7	48·6	63·5	36·5	9	73·4	17	54·6	52·6	90	94	7·6	5·9	3·69	·77	1	21	0	0	9	4	11	0	1	2	13	8	13	7	5
Carmarthen ..	·819	57·5	53·7	55·6	49·7	63·1	38·9	9	71·2	14	54·6	52·1	82	89	7·4	6·9	6·28	1·34	1	21	0	3	9	2	9	0	11	0	4	4	17	1	14
Babbacombe..	·863	57·4	54·4	55·9	50·9	62·8	44·7	9	67·4	21	54·9	53·0	84	90	7·3	6·1	4·81	1·06	23	19	0	3	10	4	8	6	3	2	6	13	10	9	3
Downside	·833	54·2	53·4	53·8	49·6	61·8	42·3	9	72·2	17	52·7	52·4	90	93	8·0	5·5	7·03	1·38	1	21	0	1	9	4	9	7	3	2	5	17	13	4	0
Marlborough	·846	55·3	52·9	54·1	48·6	63·3	36·6	9	73·0	17	53·4	51·8	87	92	8·3	5·9	4·20	·73	1	20	0	0	13	0	8	2	5	4	3	8	10	4	16
Strathfield T.	·850	56·4	53·4	54·9	48·5	65·7	36·2	9	73·0	18	54·5	52·3	88	92	7·4	4·5	3·23	·63	29	14	0	2	7	0	9	3	0	6	3	15	14	7	3
Norwood	·846	56·7	54·8	55·7	50·3	65·4	41·2	9	74·8	17	54·1	53·1	83	88	7·0	4·5	2·94	·62	10	19	0	4	9	1	6	4	1	2	12	6	15	2	12
Croydon	·847	56·8	54·4	55·6	49·9	65·0	40·4	23	74·7	17	54·1	52·6	83	88	7·0	3·9	3·27	·65	10	20	0	7	8	1	7	5	0	5	5	14	8	1	15
Southbourne	·845	57·2	55·7	56·5	51·4	63·0	41·3	9	68·3	8	54·8	53·9	85	88	6·9	5·0	5·00	1·05	21	18	0	1	5	2	11	2	3	3	3	14	7	7	10
Margate	·850	58·5	56·5	57·5	52·2	63·7	45·1	9	68·5	25	55·5	54·7	81	88	6·2	3·5	3·05	·48	28	17	0	8	6	0	3	12	5	2	8	16	5	1	8
Hillington....	·807	57·3	53·0	55·1	48·4	64·7	38·0	6	74·0	18	55·3	52·2	87	94	7·4	6·6	6·31	2·34	29	16	0	1	12	0	4	8	5	11	7	12	7	4	2
Lowestoft ...	·807	58·5	55·3	56·9	50·2	64·0	40·0	30	71·6	15	55·6	53·5	82	88	6·9	4·7	1·70	·44	24	19	0	4	9	1	4	3	3	7	7	5	17	12	2
Dublin	·810	55·6	53·8	54·7	49·7	60·8	41·2	12	66·7	24	53·3	52·1	85	88	5·4	5·0	3·64	1·38	1	14	0	5	3	3	5	4	2	8	7	4	11	10	9
Killarney	29·816	56·3	53·4	54·9	48·3	61·0	40·0	5	65·8	15, 16	54·0	52·0	85	90	8·2	7·3	4·52	1·01	1	20	0	1	18	7	8	6	0	2	1	2	5	18	18
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

PHENOMENA OBSERVED AT THE STATIONS DURING SEPTEMBER, 1883.

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Alnwick	●	●	●T	..	◕	●	◕	●	◕	●	..	≡	≡	≡	●	≡	..	≡	●≡	◕	●	..	●	●	●	●	●T	..	●	●
Cramlington	●	◕	●K	..	◕	●≡	●	◕	●	●≡	..	≡	≡	●≡	●≡T	≡	≡T	●≡	●≡	●≡	◕	●	●	●	●	●	◕	●	◕	◕
Scaleby	◕	●	●T	◕	◕	●	◕	..	◕	..	..	..	..	..	●	..	≡	●≡K	●	◕	..	●	●	●	●	●	◕	●	◕	◕
Rounton	●	◕	●T	..	◕	◕	◕	..	◕	●≡	◕	≡	..	●	●≡	..	●K	●≡	◕	●≡	..	..	●	◕	●	●	●	●	●	..
Scarborough	●	◕	●	..	●	●	◕	●	..	●	●≡	..	..	..	●≡	..	T	..	..	●	●	..	●	..	..	●	●	●	◕	●
Wakefield ..	◕	●	●	..	◕	●	◕	..	●	●	..	..	..	..	●T	..	●≡K	≡	●	●	●	●	●	◕	●	●	●	◕	◕	..
Buxton	●	●	●	●	◕	●	◕	◕	●	◕	..	..	..	..	T	..	..	..	..	●	..	..	◕	◕	◕	◕	●	◕	●	..
Cheadle	●	◕	●	◕	●	●	◕	..	◕	●	..	..	..	..	≡T	..	T	●≡	..	●◿	●	●	◕	●	●	◕	●	◕	●	..
Llandudno ..	◕	●	●	◕	●	●	●	..	◕	●	..	..	..	..	∴	..	≡	..	●	●	●≡	..	◕	●	●	●	●	◕	●	..
Leaton	◕	◕	..	◕	●	●	◕	●	●	●	◕	..	..	◕	..	≡	≡	≡	●	●≡	≡	..	●	◕	●	●	●	◕	◕	..
Churchstoke	●	◕	●	◕	●	◕	◕	..	●	●K	..	..	..	..	..	..	..	..	●	●	≡	≡	●	◕	●	◕	..	◕	◕	..
Cheltenham	●	●	..	◕	●	..	●	..	●	◕	●	..	..	..	●	≡	T	..	●	●K◿	●≡	●≡	●	◕	●	●	●	◕	●	●
Carmarthen	◕	◕	●	●	●	●	..	●	●	..	..	..	..	..	●≡	..	..	..	●	●K	◕	●≡K	●	◕	●	◕	●	◕	◕	●
Babbacombe	●	●	..	◕	◕○	●	○	◕	●	◕	..	..	..	≡	..	..	≡○	●	●≡	●K	●	T	◕○	◕	◕○	●	●	●	●	..
Downside ..	●	●	●	◕	◕	●	◕	..	●	●	..	●≡	≡	●	●≡	≡	≡	≡	●≡	●	..	●≡	◕●	◕	●	..	●	◕	◕	..
Marlborough	◕	◕	●	●	●	●	..	..	●	◕	●	..	..	●	ψ	≡	≡	≡	●≡	●◿	●	..	●	◕	●	..	●	◕	●	●
Strathfield T.	●	◕	..	◕	..	..	..	..	◕	●	●	●	..	..	..	≡	≡	≡	●≡	●	≡	..	●	..	●	..	..	●	●	●
Norwood ..	●	◕	●	◕	◕≡	≡	◕	◕	≡	●	◕≡	●≡	≡	..	≡	≡	≡	≡	≡○ψ	●≡◿ψ	●≡	≡	●≡○	●	◕	..	●	◕	●	●≡
Croydon	●	●	◕	◕	●	..	●	●	..	●	●	◕	..	≡	≡	≡	≡T	≡	●≡ψ	●◿	●≡	..	●	◕	●	..	◕	●	●	●
Southbourne	◕	◕	..	●	●	●	..	..	●	●	●	..	..	..	..	≡	..	≡	●≡	●	●	≡	●≡	◕	●	●	●	●	◕	..
Margate . ..	●	●	●	●	●	●	..	●	..	●	◕	..	..	..	..	≡	≡	..	..	●	●	..	●	◕	●	..	..	◕	◕	●
Hillington ..	◕≡	●	..	..	..	●	●	●T	..	●	●	..	..	≡	..	≡	..	..	..	●	≡	..	●	◕	●	●	●	◕	◕	●
Lowestoft ..	●	◕	..	T	..	●	●	●	..	◕	●	..	●≡	..	..	●	≡	≡	..	●	◕	..	●	◕	●	◕	●	◕	●	●
Dublin	●	◕	●	●	◕Ψ	..	●	..	◕	..	..	≡	≡	≡	≡	≡	..	○	●	●≡	..	≡	●	◕	●	◕	..	●	..	..
Killarney ..	●	◕	●	◕	●	..	●	..	◕	..	●ψ	ψ	ψ	..	..	●	..	●	●	●	●	●	..	◕	●	◕	●	●	◕	..

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✱ snow; ▲ hail; ≡ fog; K thunderstorm; T thunder; ◿ lightning; ○ solar halo; ψ lunar halo; Ψ aurora.

Station.	JULY.												AUGUST.												SEPTEMBER.											
	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.								Means.				Extremes in Month.								Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°		In.	
Alnwick	57·0	80	49·4	64·5	15·1	57·0	43·8	74·9	31·1	8·0	4·15	20	58·3	78	49·9	66·8	16·9	58·3	44·4	74·5	30·1	7·0	2·20	12	53·4	86	47·7	61·4	13·7	54·6	39·5	70·5	31·0	8·5	4·23	20
Cramlington .	56·6	80	48·3	63·0	14·7	55·6	42·0	74·7	32·7	7·7	4·22	22	58·1	80	48·0	65·6	17·6	56·8	41·4	74·5	33·1	6·2	3·02	11	53·8	87	47·6	59·0	11·4	53·3	39·0	65·8	26·8	7·9	3·99	24
Stapleton	57·4	80	48·8	63·9	15·1	56·4	39·2	75·4	36·2	7·4	4·41	20	57·5	85	48·0	62·9	14·9	55·4	37·5	68·2	30·7	7·8	4·97	20	54·7	86	46·6	60·7	14·1	53·7	36·1	68·6	32·5	7·8	5·26	23
Scaleby	57·8	85	49·1	66·7	17·6	57·9	42·6	73·4	30·8	8·6	3·21	20	57·8	87	48·9	64·8	15·9	56·8	39·5	71·8	32·3	7·4	3·73	15	54·7	88	47·1	62·4	15·3	54·8	38·5	70·0	31·5	7·9	4·12	21
Alston	55·2	80	45·0	62·6	17·6	53·8	33·8	69·4	35·6	8·5	4·56	23	55·3	85	45·4	62·8	17·4	54·1	36·8	72·0	35·2	7·2	4·80	18	51·9	89	43·9	58·1	14·2	51·0	32·8	69·8	37·0	7·7	6·55	23
Seathwaite ..	56·2	78	50·3	62·1	11·8	56·2	41·1	68·5	47·4	7·7	5·84	22	57·0	79	51·0	62·5	11·5	56·8	43·3	71·2	27·9	8·1	10·98	21	54·1	83	48·3	60·5	12·2	54·4	37·9	72·0	34·1	7·6	13·07	20
St. Mich.-on-Wyre	59·2	79	49·6	64·9	15·3	57·3	39·5	73·6	34·1	8·5	3·15	20	59·4	80	50·2	65·6	15·4	57·9	39·1	73·1	34·0	8·4	2·93	17	56·7	83	48·9	62·7	13·8	55·8	38·6	70·6	32·0	6·7	5·95	18
Blackpool	58·6	78	51·3	62·8	11·5	57·0	44·2	71·7	27·5	6·9	1·70	18	59·0	82	51·7	63·4	11·7	57·6	40·6	71·4	30·8	7·1	2·27	19	56·3	85	49·8	60·7	10·9	55·2	40·4	68·7	28·3	6·2	5·56	20
Bolton	56·9	81	50·1	63·0	12·9	56·6	44·6	73·5	28·9	8·6	3·77	23	56·1	86	50·0	64·5	14·5	57·2	43·5	72·8	29·3	8·2	3·98	18	54·6	87	48·9	61·2	12·3	55·1	41·6	72·3	30·7	7·4	7·59	20
Rounton	57·1	82	48·7	64·0	15·3	56·3	37·3	73·3	36·0	..	4·63	22	58·5	79	48·8	65·8	17·0	57·3	39·8	72·8	33·0	..	1·52	14	54·2	88	47·6	60·3	12·7	54·0	37·8	69·3	31·5	7·7	2·54	22
Scarborough ..	58·8	77	51·9	63·6	11·7	57·8	45·3	73·0	27·7	7·2	2·98	15	60·0	75	52·9	65·5	12·6	59·2	47·2	72·0	24·8	6·5	1·22	12	55·8	85	50·7	60·3	9·6	55·5	40·5	65·9	25·4	7·2	3·97	19
Wakefield	59·0	73	50·5	65·4	14·9	58·0	39·2	75·0	35·8	6·9	4·10	16	60·5	73	50·8	68·0	17·2	59·4	43·1	75·4	32·3	..	1·53	12	55·6	83	49·5	62·3	12·8	55·9	42·1	71·6	29·5	7·9	4·83	21
Hodsock	59·1	76	50·3	66·1	15·8	58·2	38·0	75·7	37·7	7·7	2·34	19	60·7	73	49·1	68·3	19·2	58·7	41·2	76·0	34·8	6·6	·99	13	55·6	86	49·1	63·2	14·1	56·2	38·3	73·0	34·7	7·1	5·09	20
Strelley	58·3	80	49·1	66·3	17·2	57·7	41·1	75·9	34·8	7·9	2·22	21	59·9	76	49·5	68·0	18·5	58·7	43·1	76·8	33·7	6·3	1·52	13	54·5	90	48·5	62·1	13·6	55·3	38·0	72·5	34·5	7·8	5·78	20
Belper	57·6	82	50·4	64·8	14·4	57·6	42·0	74·7	32·7	5·8	2·75	18	58·0	82	50·5	66·1	15·6	58·3	44·2	74·2	30·0	3·4	1·55	14	53·6	91	49·3	60·9	11·6	55·1	39·5	69·1	29·6	5·8	6·04	22
Cheadle	56·0	90	48·8	63·1	14·3	56·0	41·5	74·1	32·6	7·4	2·63	20	57·1	82	50·0	65·0	15·0	57·5	45·2	72·7	27·5	6·3	2·10	16	53·8	88	48·3	60·9	12·6	54·6	43·2	72·1	28·9	6·5	6·56	20
Oakamoor	57·8	79	46·9	65·3	18·4	56·1	37·1	75·5	38·4	8·8	3·03	13	59·1	74	48·1	67·4	19·3	57·8	39·4	74·6	35·2	7·7	2·17	17	55·7	82	47·0	61·6	14·6	54·3	37·1	72·0	34·9	7·8	6·04	20
Buxton	56·3	77	47·7	63·2	15·5	55·4	38·1	74·5	36·4	8·0	4·26	16	58·2	74	47·1	65·1	18·0	56·1	40·0	72·4	32·4	7·4	3·42	13	54·6	84	45·6	60·3	14·7	53·0	36·9	71·6	34·7	7·7	7·11	18
Macclesfield ..	56·7	80	49·5	63·2	13·7	56·3	40·3	74·1	33·8	7·4	3·14	19	57·4	85	50·2	65·6	15·4	57·9	43·8	72·1	28·3	6·6	2·78	14	54·8	94	48·7	61·0	12·3	54·9	40·2	73·6	33·4	6·8	5·64	18
Chester	60·6	71	51·7	66·4	14·7	59·0	43·2	75·8	32·6	8·2	1·86	21	60·4	74	51·8	67·7	15·9	59·8	43·2	76·6	33·4	8·6	1·64	17	56·0	84	49·3	63·7	14·4	56·5	40·5	72·8	32·3	9·0	5·07	19
Leaton ..	59·4	82	48·4	66·1	17·7	57·2	38·2	77·0	38·8	7·9	1·36	19	60·4	77	48·9	69·0	20·1	59·0	40·0	78·0	38·0	..	1·78	11	54·8	88	46·5	62·6	16·1	54·5	34·5	74·5	40·0	..	4·87	20
Churchstoke ..	58·1	78	48·5	64·1	15·6	56·3	38·8	74·2	35·4	8·6	2·20	18	59·5	77	49·6	67·5	17·9	58·6	40·1	75·9	35·8	7·1	1·09	12	54·2	85	46·7	62·2	15·5	54·4	37·0	73·0	36·0	7·2	5·48	17
Kenilworth ..	59·0	76	50·1	65·0	14·9	57·6	41·5	77·3	35·8	8·3	3·92	17	61·0	76	50·6	68·3	17·7	59·4	42·8	75·9	33·1	6·0	·98	14	54·9	88	48·9	62·1	13·2	55·5	37·7	71·9	34·2	7·7	4·77	18
Burghill	60·5	73	49·9	66·8	16·9	58·3	42·7	75·2	32·5	7·8	3·46	20	61·8	75	50·5	69·6	19·1	60·1	41·5	76·5	35·0	6·0	1·28	13	55·6	86	48·7	63·7	15·0	56·2	36·2	72·9	36·7	7·0	4·20	17
Ross	61·1	74	50·4	67·2	16·8	58·8	41·2	77·0	35·8	7·2	3·27	21	63·2	70	51·2	70·3	19·1	60·8	42·6	77·0	34·4	5·0	·81	14	55·7	84	49·6	64·4	14·8	57·0	37·3	74·8	37·5	8·2	4·52	21
Cheltenham ..	62·2	84	52·1	66·1	16·0	59·1	43·8	77·8	34·0	7·1	3·67	19	64·1	87	53·1	68·7	15·6	59·7	44·0	76·1	32·1	6·1	·80	14	58·1	90	48·6	63·5	14·9	56·0	36·5	73·4	36·9	7·6	3·69	21

JULY.

Station.	Means at 9 a.m.		Temperature. Means.				Temperature. Extremes in Month.			Mean Amount of Cloud at 9 a.m.	Rain.	
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Llandudno	59·3	76	53·1	63·0	9·9	58·0	47·8	67·8	20·0	7·5	1·15	13
Carmarthen ..	58·9	78	51·3	63·7	12·4	57·5	43·3	69·7	26·4	8·6	3·32	25
Cardiff.....	59·9	77	52·6	66·2	13·6	59·4	44·2	76·3	32·1	..	3·56	21
Weston-s-Mare	60·3	79	53·3	64·5	11·2	58·9	48·0	75·2	27·2	6·7	2·72	19
Ilfracombe ..	59·7	81	52·7	63·2	10·5	58·0	46·3	71·0	24·7	6·5	2·54	24
Bude	59·3	91	53·6	63·4	9·8	58·5	46·1	69·2	23·1	6·2	2·41	10
Helston	59·2	82	52·6	64·0	11·4	58·3	44·8	70·1	25·3	7·5	2·66	22
Falmouth	60·1	81	53·5	63·3	9·8	58·4	47·9	68·0	20·1	7·7	2·57	21
Maker	58·2	86	53·3	64·0	10·7	58·6	48·4	74·0	25·6	7·6	2·03	24
Ashburton	58·5	83	51·3	65·1	13·8	58·2	45·4	70·4	25·0	7·0	3·75	22
Bridgetown....	61·0	75	51·7	67·0	15·3	59·3	43·6	72·3	28·7	6·9	2·92	24
Torquay, C. C.	59·4	79	52·4	63·8	11·4	58·1	46·5	69·8	23·3	7·6	3·78	20
Babbacombe ..	60·4	79	51·5	65·0	13·5	58·3	46·0	72·4	26·4	7·2	4·30	23
Teignmouth, B.	59·5	76	53·4	64·6	11·2	59·0	48·2	72·5	24·3	..	2·89	18
Teignmouth, W.	60·8	80	51·9	66·8	14·9	59·4	46·0	75·2	29·2	6·9	3·07	22
Sidmouth	58·6	83	52·2	63·0	10·8	57·6	44·8	70·0	25·2	8·7	2·93	25
Brampford Spk.	60·1	79	51·5	65·1	13·6	58·3	46·0	71·8	25·8	7·4	4·58	21
Cullompton ..	59·5	75	50·3	65·2	14·9	57·8	41·8	71·8	30·0	7·4	3·55	23
Stowell	58·3	80	50·6	63·6	13·0	57·1	42·8	74·9	32·1	7·4	2·69	24
Weymouth	59·9	79	53·3	64·9	11·6	59·1	48·0	69·8	21·8	6·4	1·82	14
Swanage	58·7	82	52·5	62·0	9·5	57·3	45·6	70·1	24·5	7·0	1·77	18
Southbourne ..	59·8	79	53·0	64·4	11·4	58·7	45·4	71·8	26·4	6·5	3·11	17
Southampton..	60·3	78	50·9	66·5	15·6	58·7	39·3	76·2	36·9	8·0	3·41	23
Portsmouth ..	61·9	75	53·9	69·2	15·3	61·5	44·8	76·3	31·5	5·5	2·47	19
Ventnor	60·2	78	54·0	65·6	11·6	59·8	47·1	70·9	23·8	7·4	2·01	21
Worthing	60·9	75	53·3	65·7	12·4	59·5	42·3	73·0	30·7	6·8	2·42	13
Hastings	61·2	76	54·5	65·8	11·3	60·1	44·9	78·5	33·6	5·7	1·61	14

AUGUST.

Station.	Means at 9 a.m.		Temperature. Means.				Temperature. Extremes in Month.			Mean Amount of Cloud at 9 a.m.	Rain.	
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Llandudno	60·4	77	53·9	64·6	10·7	59·3	48·8	69·0	20·2	7·4	1·82	13
Carmarthen ..	61·3	79	51·4	65·7	14·3	58·6	41·2	74·2	33·0	7·5	2·00	21
Cardiff.....	61·4	76	52·9	67·4	14·5	60·2	46·0	74·5	28·5	..	2·09	16
Weston-s-Mare	61·3	79	53·8	66·5	12·7	60·2	46·0	74·0	28·0	6·2	2·43	18
Ilfracombe ..	60·9	84	56·6	64·6	8·0	60·6	49·6	71·3	21·7	6·3	1·58	17
Bude	60·5	90	53·8	64·7	10·9	59·3	40·1	71·2	31·1	6·5	1·79	11
Helston	60·6	82	53·9	..	..	..	48·2	..	..	7·6	1·24	15
Falmouth	61·7	79	54·7	65·5	10·8	60·1	49·4	73·6	24·2	7·1	1·40	18
Maker	59·6	84	53·8	66·3	12·5	60·1	48·3	76·0	27·7	7·0	1·13	18
Ashburton	60·7	81	52·8	67·1	14·3	59·9	47·7	75·5	27·8	6·2	1·57	16
Bridgetown....	62·8	74	51·0	69·4	18·4	60·2	40·0	77·8	37·8	6·6	1·38	15
Torquay, C. C.	61·6	75	53·6	66·4	12·8	60·0	47·3	75·2	27·9	5·5	·65	9
Babbacombe ..	62·2	75	53·1	67·8	14·7	60·4	47·1	75·9	28·8	7·3	·75	15
Teignmouth, B.	62·0	74	54·6	68·1	13·5	61·4	48·0	75·3	27·3	6·6	·43	9
Teignmouth, W.	63·6	77	53·6	70·1	16·5	61·8	47·6	77·6	30·0	5·4	·54	12
Sidmouth	61·1	81	53·6	66·1	12·5	59·8	45·9	73·3	27·4	7·9	1·00	20
Brampford Spk.	60·5	82	52·6	67·3	14·7	59·9	44·6	73·7	29·1	6·8	1·67	15
Cullompton ..	61·5	78	50·6	68·3	17·7	59·4	39·3	74·8	35·5	7·0	1·82	16
Stowell	60·3	79	51·9	66·6	14·7	59·2	42·4	73·7	31·3	7·2	1·45	24
Weymouth	62·4	74	55·4	67·6	12·2	61·5	49·0	73·8	24·8	5·2	·38	8
Swanage	..	..	..	..	..	..	50·5	72·9	22·4	4·5	1·09	..
Southbourne ..	62·5	72	54·1	68·3	14·2	61·2	45·2	77·0	31·8	5·2	·69	12
Southampton..	62·7	77	51·9	70·0	18·1	61·0	42·2	78·7	36·5	6·6	1·19	16
Portsmouth ..	64·6	74	55·6	72·5	16·9	64·1	48·9	82·3	33·4	5·0	1·12	12
Ventnor	63·5	76	56·9	69·6	12·7	63·2	51·9	77·1	25·2	6·1	·72	11
Worthing	63·2	74	55·4	68·1	12·7	61·8	48·1	75·7	27·6	5·0	·87	13
Hastings	63·5	75	56·2	68·1	11·9	62·2	49·6	76·2	26·6	5·5	·60	12

SEPTEMBER.

Station.	Means at 9 a.m.		Temperature. Means.				Temperature. Extremes in Month.			Mean Amount of Cloud at 9 a.m.	Rain.	
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Llandudno	57·7	80	51·9	61·1	9·2	56·5	46·0	68·6	22·6	6·5	3·38	19
Carmarthen ..	57·5	82	49·7	63·1	13·4	56·4	38·9	71·2	32·3	7·4	6·28	21
Cardiff.....	56·4	86	51·4	62·1	10·7	56·7	41·5	70·9	29·4	..	6·14	19
Weston-s-Mare	57·6	83	52·0	63·5	11·5	57·7	42·6	73·1	30·5	8·2	3·99	17
Ilfracombe ..	58·5	86	54·8	62·0	7·2	58·4	49·3	69·0	19·7	7·1	3·87	19
Bude	56·9	94	51·3	62·5	11·2	56·9	40·1	71·2	31·1	7·5	3·86	13
Helston	57·9	85	51·1	63·5	12·4	57·3	43·4	68·7	25·3	7·2	5·79	19
Falmouth	58·5	84	52·9	61·6	8·7	57·3	46·8	64·9	18·1	6·7	6·40	19
Maker	55·9	90	51·7	62·7	11·0	57·2	44·5	67·5	23·0	7·7	4·67	19
Ashburton	56·4	90	50·5	62·6	12·1	56·6	43·8	68·1	24·3	7·2	7·64	19
Bridgetown....	57·2	86	49·5	64·4	14·9	57·0	35·9	72·0	36·1	7·8	6·08	21
Torquay, C. C.	57·7	84	51·5	62·2	10·7	56·8	42·7	68·1	25·4	7·7	4·56	17
Babbacombe ..	57·4	84	50·9	62·8	11·9	56·9	44·7	67·4	22·7	7·3	4·81	19
Teignmouth, B.	57·4	82	52·2	63·9	11·7	58·0	44·2	68·1	23·9	7·3	4·76	16
Teignmouth, W.	58·8	84	51·5	65·5	14·0	58·5	44·0	70·6	26·6	6·5	5·72	22
Sidmouth	57·4	85	51·3	62·5	11·2	56·9	45·1	67·5	22·4	8·2	5·52	24
Brampford Spk.	57·1	86	50·2	62·6	12·4	56·4	40·0	67·5	27·5	7·7	5·76	21
Cullompton ..	57·3	85	49·8	64·1	14·3	57·0	36·3	73·1	36·8	7·8	6·12	20
Stowell	55·8	87	49·3	61·9	12·6	55·6	38·7	70·4	31·7	8·3	4·98	26
Weymouth	58·1	82	53·3	62·6	9·3	57·9	47·0	66·5	19·5	7·2	3·79	16
Swanage	57·3	84	52·9	60·6	7·7	56·7	46·2	66·1	19·9	6·8	4·28	17
Southbourne ..	57·2	85	51·4	63·0	11·6	57·2	41·3	68·3	27·0	6·9	5·00	18
Southampton..	56·9	86	49·6	63·9	14·3	56·7	37·7	72·3	34·6	8·3	4·33	23
Portsmouth ..	58·1	84	52·3	65·6	13·3	58·9	45·0	72·8	27·8	6·0	4·44	17
Ventnor	58·7	85	54·2	64·7	10·5	59·5	47·8	70·4	22·6	7·3	4·56	15
Worthing	59·1	83	52·6	64·4	11·8	58·5	44·3	71·3	27·0	5·8	3·73	17
Hastings	58·7	82	53·6	63·9	10·3	58·7	43·6	71·2	27·6	6·3	3·65	20

Station.	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.								Means.				Extremes in Month.								Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.		°	o/o	°	°	°	°	°	°	°		In.		°	o/o	°	°	°	°	°	°		In.	
Ramsgate	60·4	73	52·0	66·8	14·8	59·4	45·5	73·5	28·0	6·4	3·09	17	62·9	74	54·7	69·0	14·3	61·8	47·9	75·3	27·4	6·7	·44	7	59·0	78	52·1	64·8	12·7	58·5	44·1	70·4	26·3	5·8	3·65	18
Margate	60·3	75	52·4	66·5	14·1	59·5	46·4	75·2	28·8	7·2	2·55	17	62·7	75	54·9	68·4	13·5	61·6	45·2	77·9	32·7	6·6	·37	9	58·5	81	52·2	63·7	11·5	58·0	45·1	68·5	23·4	6·2	3·05	17
Southend	63·6	..	53·2	69·4	16·2	61·3	44·1	78·0	33·9	7·5	2·96	16	64·2	77	54·6	72·3	17·7	63·5	47·7	80·8	33·1	6·1	·28	5	58·3	90	51·8	65·6	13·8	58·7	41·7	72·3	30·6	6·7	2·22	14
Downside	57·8	80	49·9	63·5	13·6	56·7	42·0	74·4	32·4	7·1	5·13	19	59·8	80	52·1	65·7	13·6	58·9	46·4	75·0	28·6	5·7	3·15	17	54·2	90	49·6	61·8	12·2	55·7	42·3	72·2	29·9	8·0	7·03	21
Marlborough ..	59·6	76	49·7	65·8	16·1	57·8	39·8	76·4	36·6	8·5	3·67	18	61·8	79	51·2	69·2	18·0	60·2	43·3	75·7	32·4	5·8	·97	12	55·3	87	48·6	63·3	14·7	55·9	36·6	73·0	36·4	8·3	4·20	20
Strathfield Turg.	61·4	73	50·2	68·7	18·5	59·4	41·7	81·7	40·0	8·1	2·95	18	62·8	74	49·7	72·4	22·7	61·1	39·6	81·0	41·4	6·3	·64	11	56·4	88	48·5	65·7	17·2	57·1	36·2	73·0	36·8	7·4	3·23	14
Harestock	58·9	76	50·9	64·8	13·9	57·9	42·8	76·1	33·3	7·9	2·23	20	61·2	72	51·7	68·9	17·2	60·3	44·0	77·6	33·6	5·9	·93	11	55·9	85	49·4	63·0	13·6	56·2	37·0	71·7	34·7	7·3	4·33	14
Swarraton	58·7	81	50·3	64·8	14·5	57·5	38·8	77·2	38·4	7·1	3·62	17	60·6	79	50·8	68·5	17·7	59·7	41·0	77·5	36·5	5·8	·76	9	55·9	88	49·1	62·8	13 7	55·9	34·0	73·0	39·0	6·9	4·02	14
Tunb. Wells ..	59·2	77	50·4	65·5	15·1	58·0	43·0	79·1	36·1	7·5	2·15	14	61·6	76	52·9	69·4	16·5	61·1	47·5	79·1	31·6	6·6	·51	7	56·4	87	49·5	63·4	13·9	56·5	40·9	74·1	33·2	7·3	3·62	20
Tunbridge	62·5	69	52·0	68·6	16·6	60·3	43·8	83·4	39·6	6·6	2·61	13	..	..	..	..	..	..	41·3	82·9	41·6	5·2	·44	6	56·9	86	49·5	65·1	15·6	57·3	39·3	75·7	36·4	7·1	2·94	19
Beddington....	61·3	70	50·2	68·5	18·3	59·3	40·8	81·9	41·1	7·0	2·22	17	62·2	74	51·6	71·7	20·1	61·7	41·0	81·4	40·4	6·4	·59	7	56·8	85	48·9	64·9	16·0	56·9	37·1	75·0	37·9	7·4	3·18	20
Croydon	60·7	69	51·5	67·4	15·9	59·5	43·1	80·2	37·1	7·7	2·30	18	62·0	72	53·0	71·0	18·0	62·0	42·3	80·6	38·3	6·9	·59	8	56·8	83	49·9	65·0	15·1	57·4	40·4	74·7	34·3	7·0	3·27	20
South Norwood.	61·0	70	51·5	67·6	16·1	59·5	42·6	81·7	39·1	7·0	1·84	14	62·1	73	53·3	71·5	18·2	62·4	44·9	80·1	35·2	6·8	·49	6	56·8	85	50·3	64·6	14·3	57·5	40·7	75·0	34·3	6·8	3·00	20
Norwood	61·3	68	51·8	68·4	16·6	60·1	42·9	82·4	39·5	7·5	2·06	17	62·5	71	54·0	71·8	17·8	62·9	45·0	81·6	36·6	6·4	·65	14	56·7	83	50·3	65·4	15·1	57·8	41·2	74·8	33·6	7·0	2·94	19
Isleworth	61·6	73	51·2	68·5	17·3	59·8	41·9	82·5	40·6	8·3	1·79	20	63·5	71	52·5	72·1	19·6	62·3	43·0	82·2	39·2	6·6	1·16	12	57·3	87	49·7	66·3	16·6	58·0	38·2	76·0	37·8	7·6	3·19	18
London, Old St.	61·2	70	54·0	68·4	14·4	61·2	45·9	82·1	36·2	7·4	2·43	15	62·3	72	56·2	72·0	15·8	64·1	51·0	81·1	30·1	7·6	·96	8	57·1	82	52·3	65·7	13·4	59·0	45·4	74·4	29·0	8·8	3·77	22
Regent's Park..	60·4	74	51·9	68·7	16·8	60·3	43·0	82·3	39·3	..	2·86	16	61·5	75	54·2	72·0	17·8	63·1	47·5	81·2	33·7	..	1·01	12	55·8	86	50·3	65·8	15·5	58·1	41·2	75·0	33·8	..	4·07	17
Finchley	59·4	81	50·3	66·7	16·4	58·5	41·3	78·8	37·5	6·8	2·95	14	61·1	85	52·0	69·6	17·6	60·8	45·0	78·6	33·6	6·2	1·35	8	55·7	87	48·6	63·9	15·3	56·2	38·7	72·7	34·0	7·8	3·73	20
Watford	59·9	74	51·3	67·2	15·9	59·3	43·5	81·2	37·7	7·8	3·36	17	..	..	..	..	..	..	44·0	79·8	35·8	..	1·02	11	..	..	..	..	..	..	38·2	75·1	36·9	..	3·57	17
Throcking	58·1	84	50·0	66·3	16·3	58·1	42·9	77·4	34·5	7·2	3·59	16	60·6	85	52·1	69·3	17·2	60·7	45·4	78·9	33·5	6·1	1·64	12	55·4	93	48·9	62 8	13·9	55·9	42·4	72·7	30·3	7·1	4·04	15
Aspley Guise ..	60·7	75	50·1	66·9	16·8	58·5	43·0	77·9	34·9	8·0	2·64	19	62·9	71	51·8	70·6	18·8	61·2	41·7	80·1	38·4	6·5	1·16	12	56·6	84	49·0	63·5	14·5	56·2	39·8	73·8	34·0	7·5	4·10	15
Hillington	59·9	85	50·2	67·9	17·7	59·0	38·5	81·5	43·0	8·0	3·40	22	62·2	77	49·2	69·3	20·1	59·3	40·3	81·3	41·0	6·6	1·70	12	57·3	87	48·4	64·7	16·3	56·5	38·0	74·0	36·0	7·4	6·31	16
Cromer	60·8	84	52·2	65·5	13·3	58·9	41·0	80·0	39·0	7·4	2·66	18	63·1	81	52·3	67·7	15·4	60·0	41·0	81·3	40·3	6·8	1·57	8	58·7	91	50·2	63·2	13·0	56·7	43·0	71·4	28·4	5·5	3·59	16
Somerleyton .	60·1	78	51·3	66·9	15·6	59·1	39·2	77·5	38·3	6·5	2·97	16	62·0	75	51·9	68·7	16·8	60·3	42·0	77·2	35·2	6·1	1·10	9	57·7	85	49·9	64·7	14·8	57·3	40·2	73·8	33·6	5·7	1·88	14
Lowestoft	60·2	77	51·5	65·9	14·4	58·7	42·3	74·0	31·7	7·9	3·82	19	61·9	74	52·2	68·0	15·8	60·1	42·5	77·0	34·5	6·8	1·03	12	58·5	82	50·2	64·0	13·8	57·1	40·0	71·6	31·6	6·9	1·70	19
Guernsey	59·5	85	54·6	65·5	10·9	60·1	49·8	75·9	26·1	6·4	2·19	18	61·9	82	56·4	68·1	11·7	62·2	49·3	79·7	30·4	5·5	1·55	13	..	..	..	..	..	..	49·3	..	..	..	5·07	..
Dublin	58 7	74	52 5	61 3	10 8	57·9	44 4	69·2	25·8	7·0	2·22	22	59·0	78	53·4	65·4	12·0	59·4	48·0	71·4	23·4	6·6	3·31	14	55·6	85	49·7	60·8	11·1	55·2	41·2	66·7	25·5	5·4	3·64	14
Killarney	57 9	85	50 7	61 4	10·7	56·1	42 1	66 3	24·2	7·2	4 20	20	58 0	86	51 6	63 7	12·1	57·0	46·7	69·4	22·7	6·8	3·11	18	56·0	86	48·3	61·0	12·7	54·7	40·0	65 8	25·8	8·2	4·52	20

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THE METEOROLOGICAL RECORD.

MONTHLY RESULTS OF OBSERVATIONS

MADE AT THE

STATIONS OF THE

ROYAL METEOROLOGICAL SOCIETY,

WITH

REMARKS ON THE WEATHER

FOR THE QUARTER ENDING

DECEMBER 31ST, 1883.

BY

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Assistant-Secretary.

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THE METEOROLOGICAL RECORD.

REMARKS

ON THE

WEATHER OVER ENGLAND

FOR THE QUARTER ENDING DECEMBER 31ST, 1883.

THE weather during the quarter was, on the whole, dull, mild, and foggy, the last week of December being particularly so. The most remarkable phenomenon during the quarter was the peculiar glow observed before sunrise, and after sunset, on November 8th and 9th, and daily from November 25th to the end of the year. During the night of December 11th, a heavy gale was experienced over the greater part of the country. It was, however, most severe in the North-west of England, where the destruction to property was very great.

AIR TEMPERATURE was above the average.

In *October* the mean temperature (mean of maximum and minimum) was 50°·1, and varied from 54°·0 at Ilfracombe, 53°·6 at Ventnor, 53°·4 at Helston, 53°·1 at Falmouth, 52°·8 at Teignmouth, 52°·7 at Hastings and Weymouth, and 52°·6 at Portsmouth, to 43°·9 at Alston, 46°·0 at Stapleton, 46°·2 at Buxton, 46°·9 at Cramlington, 47°·2 at Rounton, 47°·3 at Macclesfield, and 47°·4 at Scaleby. The weather was rather cold during the first week, but warm during the remainder of the month. The maximum temperature occurred over the greater part of the country on the 8th, but at several places in the South and West on the 27th. The highest readings were:—on the 8th, 72°·5 at Alnwick, 68°·5 at Rounton, 68°·4 at Hodsock, 68°·2 at Scarborough, 67°·2 at Strelley, and 67°·1 at Somerleyton; on the 9th, 64°·4 at Ventnor, and 64°·3 at Chester; on the 14th, 66°·4 at Hillington; and on the 27th, 66°·7 at Portsmouth, 65°·3 at Bridgetown, and 65°·0 at Aspley Guise. The minimum temperature took place generally on the 22nd. The lowest readings on that day were 20°·8 at Alston, 25°·0 at Scaleby, 26°·0 at Rounton and Stapleton, 26°·5 at Blackpool and Buxton, and 26°·6 at Alnwick. The mean daily range of temperature was 11°·7.

In *November* the mean temperature was 48°·5, and varied from 48°·9 at Helston, 48°·4 at Falmouth, 48°·3 at Ilfracombe, 48°·0 at Ventnor, 47°·4 at Maker, 47°·1 at Bude and Weymouth, 46°·9 at Teignmouth, 46°·7 at Torquay, and 46°·3 at Ashburton, to 37°·8 at Alston, 39°·5 at Buxton, 39°·9

at Stapleton, 40°·5 at Leaton, 40°·8 at Cramlington, and 41°·0 at Bolton, Cheadle, Macclesfield, Rounton, and Strelley. The weather was cold and dull during the first half of the month, but very mild during the latter part. The maximum temperature occurred in the South-east on the 6th, and in the other districts on the 28th. The highest readings were :—on the 6th, 60°·1 at Portsmouth, 59°·5 at South Norwood, 58°·6 at Ventnor, and 57°·6 at Southbourne; and on the 28th, 59°·4 at Wakefield, 59°·0 at Llandudno, 58°·5 at Bridgetown, and 58°·4 at Burghill. The minimum temperature occurred between the 12th and 15th. The lowest readings were :—on the 12th, 19°·0 at Buxton, 19°·4 at Alston, and 22°·2 at Scaleby; on the 13th, 20°·3 at Churchstoke, 21°·4 at Leaton, and 22°·3 at Chester; on the 14th, 20°·8 at Stowell, and 21°·0 at Swarraton; on the 15th, 20°·4 at Ross, 20°·5 at Cheltenham, and 22°·5 at Burghill. The mean daily range of temperature was 11°·7.

In *December* the mean temperature was 40°·7, and varied from 45°·8 at Ilfracombe, 45°·2 at Falmouth, 43°·8 at Bude, 43°·7 at Llandudno, 43°·3 at Teignmouth, and 43°·1 at Maker and Torquay, to 37°·2 at Stapleton, 37°·3 at Alston, 37°·6 at Buxton, 38°·0 at Throcking, 38°·5 at Tunbridge Wells, 38°·8 at Aspley Guise and Cheadle, and 38°·9 at Marlborough. The weather was cold during the first part of the month, but mild during the remainder. The maximum temperature occurred on the 3rd, 13th, and 14th. The highest readings were :—on the 3rd, 54°·8 at Cheltenham and Southbourne; on the 13th, 56°·3 at Hodsock, 55°·2 at Chester, 55°·1 at South Norwood, and 55°·0 at Ross; on the 14th, 55°·5 at Sidmouth, 55°·2 at Cullompton, and 55°·0 at Wakefield; on the 20th, 56°·6 at Teignmouth, 55°·0 at Bridgetown, and 54°·0 at Babbacombe; and on the 24th, 55°·5 at Burghill, and 54°·0 at Llandudno. The minimum temperature took place on the 6th, 7th, and 8th. The lowest readings were :—on the 6th, 22°·4 at Cheltenham, 24°·5 at Leaton; on the 7th, 17°·2 at Alston, 20°·9 at Stapleton, 22°·0 at Scaleby, and 22°·4 at Seathwaite; and on the 8th, 21°·5 at Bridgetown, 22°·2 at Cullompton, and 23°·1 at Southbourne. The mean daily range of temperature, owing to the cloudy state of the sky, was only 8°·4.

Atmospheric Pressure was above the average.

In *October* the mean pressure, reduced to sea-level, was 29·95 ins. The highest readings were in the South, and the lowest in the North. The maximum took place generally on the 8th, but in the extreme North on the 30th. The highest readings were 30·554 ins., at 9 a.m. on the 8th, at Churchstoke, and 30·497 ins. at 9 a.m. on the 30th, at Scarborough. The minimum took place on the 16th and 17th; the lowest reading being 28·996 ins. at 9 a.m. on the 16th, at Scaleby.

In *November* the pressure was below the average, the mean being 29·79 ins. The highest readings were in the South, and the lowest in the North. The maximum occurred in the North on the 1st, and in the South on the 28th; the highest readings were 30·303 ins. at 9 a.m. on the 1st, at Buxton, and 30·452 ins. at 9 a.m. on the 28th, at Margate. The minimum took place in

the South on the 6th, and in the North on the 25th; the lowest readings being 28·891 ins. at 9 a.m. on the 6th, at Lowestoft, and 28·662 ins. at 9 a.m. on the 25th, at Scaleby.

In *December* the pressure was considerably above the average, the mean being 30·15 ins. The highest readings were in the South-west, and the lowest in the North-east. The maximum occurred in the South and West on the 7th, in the East on the 25th, and in the North on the 31st. The highest readings were 30·678 ins. at 9 a.m. on the 7th at Churchstoke, 30·602 ins. at 9 a.m. on the 25th at Croydon, and 30·604 ins. at 9 a.m. on the 31st, at Cramlington. The minimum took place in the North and West on the 11th, and in the South and East on the 15th; the lowest readings were 29·084 ins. at 9 p.m. on the 11th, at Alnwick, and 29·829 ins. at 9 p.m. on the 15th, at Scarborough.

RAINFALL was slightly above the average.

In *October* both the rainfall and number of rainy days were about the average. The monthly falls varied from 15·84 ins. at Seathwaite, 6·96 ins. at Buxton, 6·36 ins. at Bolton, 5·98 ins. at Alston, 5·67 ins. at Ashburton, and 5·48 ins. at Carmarthen, to 1·51 in. at Ramsgate, 1·57 in. at Isleworth, 1·59 in. at Southend, 1·62 in. at South Norwood, 1·74 in. at Beddington, 1·75 in. at Cramlington, and 1·78 in. at Regent's Park. Rain fell generally on the 2nd, 3rd, 5th, and 14th to 26th. Falls exceeding 1 in. were recorded as follows:—on the 3rd, 1·10 in. at Buxton, on the 18th, 1·22 in. at Ashburton, on the 15th, 1·87 in. at Carmarthen, 1·33 in. at Ashburton, 1·27 in. at Bridgetown, and 1·16 in. at Burghill; and on the 16th, 1·17 in. at Bolton and St. Michael's-on-Wyre, and 1·06 in. at Llandudno. At Seathwaite falls exceeding 1 in. were measured on the 14th, 15th, 16th, 22nd, 24th, and 26th; the heaviest being 2·99 ins. on the 22nd. Thunderstorms occurred on the 3rd, 16th to 18th and 21st. Hail fell on the 3rd, 15th, 18th, 20th, 21st and 26th.

In *November* the rainfall and number of rainy days were above the average. The monthly falls varied from 19·55 ins. at Seathwaite, 8·23 ins. at Falmouth, 6·89 ins. at Carmarthen, 6·41 ins. at Ashburton, 6·38 ins. at Cardiff, to 1·59 in. at Cramlington, 1·64 in. at Alnwick, 1·71 in. at Rounton, 1·85 in. at Regent's Park, 2·00 ins. at Wakefield, and 2·33 ins. at Southend. Rain fell generally from the 4th to the 9th, and 15th to 25th. At Seathwaite falls exceeding 2 ins. were measured on the 3rd, 23rd and 24th; the heaviest being 2·96 ins. on the 24th. At the other stations falls exceeding 1 in. were recorded as follows:—on the 4th, 1·26 in. at Bolton; on the 5th, 1·18 in. at Churchstoke, and 1·00 in. at Downside; on the 11th, 1·03 in. at Babbacombe; and on the 24th, 1·10 in. at Ashburton. Thunderstorms occurred on the 7th, 9th, 17th, 20th to 22nd, 24th and 25th. Snow fell on the 10th, 14th to 16th, 18th to 21st, and 23rd. Hail occurred on the 8th to 10th, 13th, 17th to 23rd, 25th and 26th.

In *December* the rainfall was below the average. The monthly falls varied from 14·80 ins. at Seathwaite, 5·56 ins. at Bolton, 4·92 ins. at Buxton, 4·27 ins. at Stapleton, and 3·88 ins. at Alston, to 0·48 in. at Teignmouth, 0·50

in. at Torquay, 0·51 in. at Burghill and Weymouth, and 0·56 in. at Beddington and South Norwood. The greatest daily fall occurred on the 10th, the largest amounts being 3·41 ins. at Seathwaite, 1·22 in. at Bolton, 1·21 in. at Buxton, 0·85 in. at Downside, 0·82 in. at Hastings, and 0·77 in. at Llandudno. Thunderstorms occurred on the 4th and 16th. Snow fell from the 3rd to 9th, 12th, and 15th to 17th. Hail occurred on the 3rd to 7th, and 14th to 18th.

WIND.—In *October* the general direction of the wind was North-west from the 1st to the 7th, calm or variable from the 8th to the 12th, South-west from the 13th to the 27th, and East from the 28th to the 31st. Gales or strong winds occurred on several occasions.—In *November* the direction of the wind was chiefly West or North-west from the 1st to the 10th, North-west from the 11th to the 14th, and South-west from the 15th to the 30th. Gales or strong winds were experienced on several occasions.—In *December* the general direction of the wind was from the North-west. A destructive gale occurred in the North-west on the night of the 11th.

FOG was prevalent on *October* 5th to 13th, 20th to 22nd, 24th, and 26th to 31st; *November* 1st to 4th, 7th, 8th, 10th to 16th, 18th, 20th, 23rd, 26th to 30th; and *December* 1st, 2nd, 5th to 10th, 16th to 21st, and 23rd to 31st.

HALOS were observed on *October* 2nd, 5th, 10th, 11th, 15th, 16th, 20th, and 22nd to 24th; *November* 5th to 7th, 11th, 12th, 17th, 23rd, 24th, 26th, 28th and 29th; and on *December* 1st, 5th, 10th to 12th, 15th, 21st, and 23rd.

AURORA was seen on *November* 22nd and 28th; and on *December* 1st and 2nd.

RESULTS OF HOURLY READINGS DERIVED FROM REDIER BAROGRAPH AT GELDESTON, NORFOLK, DURING 1883. By E. T. DOWSON, F.R.Met.Soc.

A DESCRIPTION of Redier's Barograph is printed in the *Quarterly Journal of the Royal Meteorological Society*, Vol. II. p. 412. The pressure scale of this instrument is four inches for each of the three barometric inches, and the time scale is 8·75 ins. for twenty-four hours. The papers are renewed between 8 and 9 a.m. on every third day, when the clocks are wound up; and the pencil is then set to the reading of the Standard barometer, corrected for temperature and altitude: and the curves, therefore, run accordingly. No correction has been applied to the curves themselves, except for any error in the actual setting of the pencil at the commencement.

TABLE showing Results of Hourly Readings derived from a Redier Barograph at Geldeston, Norfolk, during 1883.

1883.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
January	29·882	29·882	29·884	29·887	29·885	29·889	29·895	29·905	29·914	29·920
February	30·053	30·050	30·047	30·042	30·043	30·042	30·049	30·057	30·064	30·068
March ..	29·918	29·912	29·906	29·903	29·903	29·905	29·912	29·915	29·920	29·922
April	30·014	30·010	30·006	30·004	30·004	30·011	30·014	30·018	30·020	30·021
May	29·938	29·935	29·932	29·928	29·932	29·937	29·941	29·946	29·949	29·950
June	29·967	29·961	29·957	29·957	29·957	29·960	29·963	29·968	29·969	29·971
July	29·830	29·824	29·819	29·820	29·820	29·822	29·826	29·829	29·831	29·829
August ..	29·985	29·982	29·976	29·973	29·976	29·982	29·986	29·992	29·993	29·992
September	29·811	29·806	29·800	29·796	29·794	29·796	29·800	29·801	29·806	29·804
October ..	29·919	29·915	29·910	29·905	29·905	29·906	29·913	29·922	29·934	29·940
November	29·800	29·796	29·791	29·785	29·782	29·781	29·781	29·785	29·786	29·787
December	30·068	30·068	30·066	30·062	30·060	30·061	30·067	30·079	30·090	30·097
Means ..	29·932	29·928	29·925	29·922	29·922	29·924	29·929	29·935	29·940	29·942

1883.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
January	29·920	29·912	29·904	29·897	29·898	29·896	29·897	29·897	29·896	29·894
February	30·072	30·068	30·063	30·063	30·063	30·056	30·059	30·065	30·069	30·071
March ..	29·920	29·919	29·915	29·907	29·903	29·899	29·899	29·905	29·909	29·914
April	30·016	30·012	30·008	30·002	29·996	29·992	29·991	29·993	29·997	30·001
May	29·949	29·947	29·945	29·943	29·940	29·937	29·935	29·938	29·944	29·949
June	29·972	29·970	29·969	29·967	29·965	29·962	29 960	29·960	29·962	29·966
July	29·829	29·829	29·828	29·826	29·822	29·818	29·816	29·816	29·820	29·823
August ..	29·990	29·988	29·986	29·981	29·978	29·975	29·973	29·972	29·975	29·981
September	29·803	29·801	29·798	29·798	29·797	29·795	29·797	29·802	29·808	29·815
October ..	29·943	29·940	29·939	29·936	29·933	29·931	29·935	29 940	29·941	29·943
November	29·785	29·777	29·771	29·768	29·770	29·773	29·781	29·787	29·793	29·797
December	30·098	30·092	30·084	30·084	30·091	30·095	30·099	30·102	30·105	30·105
Means ..	29·941	29·938	29·934	29·931	29·930	29·927	20·929	29·931	29·935	29·938

1883.	9 p.m.	10 p.m.	11 p.m.	Mid-night.	Mean.	Extremes.	
						Max.	Min.
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
January	29·890	29·885	29·881	29·877	29·895	30·690	28·945
February	30·075	30·078	30·078	30·083	30·062	30·775	29·000
March	29·916	29·916	29·915	29·914	29·911	30·740	29·158
April	30·005	30·007	30·006	30·004	30·006	30·645	29·410
May	29·955	29·956	29·955	29·954	29·943	30·410	29·480
June	29·973	29·973	29·971	29·968	29·965	30·370	29·585
July	29·829	29·830	29·830	29·828	29·825	30·130	29·445
August	29·983	29·982	29·981	29·979	29·982	30·295	29·510
September	29·816	29·816	29·815	29·814	29·803	30·255	28·850
October.....	29·945	29·945	29·945	29·945	29·930	30·487	29·187
November	29·800	29·800	29·800	29·797	29·786	30·395	28·910
December	30·104	30·100	30·097	30·092	30·086	30·580	29·260
Means	29·941	29·941	29·940	29·938	29·933	..	..

Abstract of Meteorological Observations for the Month of OCTOBER, 1888.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of					Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.														
Alnwick.....	29·860	46·9	45·9	46·4	40·7	54·6	26·6	22	72·5	8	44·7	44·2	84	87	5·7	5·1	2·40	·45	3	17	0	7	10	0	3	1	0	4	11	5	14	10	14
Cramlington	·864	48·3	45·5	46·9	40·2	53·5	28·0	22	63·8	8	46·1	44·4	84	91	5·5	5·2	1·75	·47	3	17	0	2	4	0	7	5	1	2	4	13	13	17	0
Scaleby.....	·871	47·2	46·7	47·0	40·4	54·4	25·0	22	60·3	30	46·1	45·9	92	94	5·9	6·5	3·58	·47	10	20	0	4	9	7	5	6	3	6	4	21	2	6	9
Rounton	·893	48·1	46·4	47·2	40·6	53·8	26·0	22	68·5	8	46·6	45·6	89	94	5·5	6·6	3·03	·67	3	20	0	4	10	8	7	0	1	5	5	26	7	4	7
Scarborough..	·893	50·3	49·1	49·7	45·3	54·7	37·8	20	68·2	8	48·1	47·5	84	88	5·5	6·5	3·47	·95	3	16	0	3	9	1	12	2	0	5	3	11	17	6	6
Wakefield....	·926	48·7	48·4	48·5	42·9	55·1	33·0	12, 22	63·6	8	46·4	46·6	83	87	7·1	7·6	3·31	·71	3	21	0	0	13	1	6	3	4	2	5	16	18	8	0
Buxton	·947	46·5	46·1	46·3	40·2	52·3	26·5	22	59·8	8	44·7	44·8	86	90	7·4	7·1	6·87	1·00	3	17	0	1	12	0	2	3	5	5	5	11	21	8	2
Cheadle.....	·951	46·8	46·9	46·9	42·0	53·1	32·8	22	59·1	9	45·6	46·0	91	93	6·1	6·5	3·67	·65	15	20	0	3	10	4	3	3	10	3	5	10	11	11	6
Llandudno ..	·937	52·1	50·9	51·5	46·9	55·1	38·5	22	61·0	9, 29	49·3	48·7	81	85	6·0	6·8	4·12	1·06	16	20	0	4	11	1	11	3	0	0	9	8	26	5	0
Leaton	....	48·9	47·2	48·1	41·8	54·6	30·0	22	65·0	8	47·5	46·0	90	91	..	..	2·91	·66	16	18	0	..	..	..	..	..	..	..	..	..	..	..	..
Churchstoke..	·978	49·0	47·5	48·3	42·3	54·7	31·1	22	66·2	8	47·1	46·1	86	89	7·6	8·2	2·95	·79	15	15	0	1	17	1	2	2	1	7	4	19	12	8	7
Cheltenham...	·971	49·6	47·6	48·6	42·0	55·8	30·0	2	61·8	8	48·3	46·8	90	94	7·0	6·3	2·45	·57	15	17	0	2	9	3	7	0	3	3	5	15	16	0	13
Carmarthen ..	29·974	50·9	48·9	49·9	44·4	56·5	32·2	7	62·0	8	48·9	47·6	86	90	6·5	8·4	5·43	1·37	15	22	0	1	17	0	6	1	7	1	4	10	15	1	17
Babbacombe..	30·026	52·7	49·7	51·2	45·9	57·3	36·1	21	64·2	27	50·2	48·1	83	89	6·6	7·3	3·03	·80	15	17	0	4	14	5	7	6	7	0	8	15	8	11	0
Downside	29·998	48·9	47·9	48·4	44·2	54·9	38·7	20, 21	60·8	9	47·6	47·0	90	93	7·1	6·3	4·78	·95	14	17	0	1	13	3	7	9	0	5	4	18	8	10	1
Marlborough	30·005	49·4	47·0	48·2	42·4	55·9	33·7	22	62·1	10	47·7	45·9	87	92	6·8	6·0	3·12	·94	15	17	0	4	10	0	8	3	7	1	6	9	12	5	11
Strathfield T.	30·004	50·4	47·7	49·1	42·7	57·5	34·7	7	62·4	10	48·6	46·4	87	90	7·7	5·7	1·94	·48	15	15	0	3	15	0	6	4	4	3	3	12	12	11	7
Norwood	29·999	50·5	49·0	49·8	44·9	57·0	37·9	23	63·7	14	48·5	47·4	86	88	6·8	5·6	1·85	·42	15	16	0	6	13	0	11	0	4	3	6	9	14	1	14
Croydon	29·996	50·8	48·6	49·7	44·6	56·8	37·9	22	63·2	14	48·4	46·8	83	87	7·6	5·1	1·86	·49	15	15	0	3	11	4	3	4	2	2	6	15	9	4	17
Southbourne	30·009	51·6	50·3	50·9	46·0	57·0	35·7	22	61·9	9	49·3	48·4	85	87	6·1	4·7	2·13	·51	14	14	0	6	10	3	11	5	2	1	3	6	12	14	8
Margate	29·987	52·3	50·7	51·5	46·9	56·4	37·4	23	61·7	14	50·0	49·0	84	88	7·4	4·7	1·79	·30	4	15	0	2	7	0	3	0	4	3	8	13	10	7	14
Hillington....	·946	49·9	47·6	48·8	43·6	56·1	35·1	3	66·4	14	48·7	46·7	91	93	8·1	7·8	2·73	·68	3	18	0	2	18	4	8	3	1	9	5	14	11	11	0
Lowestoft	·934	51·8	50·1	50·9	46·1	56·1	37·0	22	66·5	8	49·6	48·4	85	88	6·2	7·4	2·49	·65	3	19	0	2	14	1	2	5	4	3	6	6	24	12	0
Dublin	·943	49·4	49·8	49·6	44·6	55·4	34·5	22	63·8	8	47·3	47·8	85	86	5·8	5·7	2·20	·45	24	16	0	5	7	0	2	1	2	2	14	5	23	9	4
Killarney	29·963	51·6	49·0	50·3	42·1	57·3	31·2	5	72·0	13	49·6	47·4	86	88	7·5	7·2	5·03	1·06	13	20	0	2	13	6	2	0	5	3	7	6	15	6	18
Columns	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

Daily Maximum and Minimum Temperatures and the Duration of Bright Sunshine, as recorded in London and the Suburbs.

Date.	OCTOBER.											NOVEMBER.											DECEMBER.										
	Max. Temp.				Min. Temp.				Sunshine.			Max. Temp.				Min. Temp.				Sunshine.			Max. Temp.				Min. Temp.				Sunshine.		
	Old Street.	Regent's Park.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Bunhill Row.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Bunhill Row.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Bunhill Row.	Greenwich.	Kew.
	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.
1	50·2	55·5	55·5	54·0	47·2	46·0	44·7	44·8	3·8	3·5	6·2	50·9	50·0	52·1	50·2	48·0	46·0	45·7	46·6	..	1·5	..	45·9	45·5	45·2	45·4	41·5	40·0	36·6	37·0	..	..	0·2
2	55·4	55·0	54·9	52·8	41·3	40·0	40·3	41·3	7·6	7·8	9·6	48·4	47·5	50·1	48·2	44·9	44·0	43·6	45·0	..	..	..	45·9	45·0	44·8	44·9	38·8	35·9	36·6	38·7	..	..	..
3	50·8	49·8	49·1	49·5	46·7	43·8	41·4	42·1	..	..	0·6	49·4	48·0	47·8	48·3	45·0	44·5	44·4	43·4	..	..	..	54·4	53·5	53·2	54·0	40·0	37·0	38·0	39·3	..	..	..
4	53·9	55·0	52·5	53·8	41·5	40·0	40·5	41·3	0·2	..	0·5	52·8	52·0	51·6	51·7	41·0	39·0	38·6	37·1	..	..	..	43·2	42·2	45·7	47·8	37·8	36·2	36·5	36·5	..	3·2	4·8
5	55·3	55·5	53·9	54·8	45·3	44·5	44·7	45·3	1·6	1·4	2·9	55·5	54·2	50·1	48·6	41·0	39·5	39·3	39·4	1·1	4·9	4·1	40·9	40·5	41·1	40·2	34·5	32·9	32·8	32·9	..	0·8	2·8
6	58·4	58·0	58·3	56·2	42·4	41·0	40·3	39·6	6·8	6·9	8·5	56·4	55·5	56·1	56·0	44·0	42·3	38·3	38·2	..	..	..	36·2	35·5	35·6	34·8	31·9	29·9	28·4	29·4	1·5	1·4	4·3
7	56·0	55·5	55·4	55·3	44·2	41·2	41·0	39·7	0·2	..	0·1	48·2	47·8	47·6	46·3	36·5	32·2	33·5	32·0	0·3	0·7	2·3	37·0	37·0	37·8	35·6	29·9	28·2	31·5	31·5	0·2	2·6	4·8
8	61·5	61·2	61·5	60·7	46·9	44·5	49·9	51·5	..	..	..	50·4	49·2	50·1	49·5	38·8	36·2	37·6	38·6	..	2·4	3·3	37·3	37·0	35·3	35·4	33·2	31·0	31·6	31·6	..	..	..
9	58·9	58·0	59·2	59·0	50·2	52·8	48·4	46·3	..	..	..	54·4	54·0	53·9	52·9	41·0	39·9	40·8	40·2	1·0	2·1	2·0	45·4	44·0	38·5	40·0	35·0	32·0	32·9	32·6	..	..	..
10	59·0	56·0	62·1	59·6	50·2	44·0	43·7	43·9	..	2·2	2·4	46·6	46·6	45·1	45·4	38·5	36·9	37·2	37·8	3·5	3·6	6·0	49·4	47·4	47·6	47·2	36·0	34·0	38·5	39·9	..	..	0·3
11	58·9	59·0	56·2	58·8	50·2	48·0	47·6	46·7	..	..	0·5	47·9	47·2	45·9	46·9	38·0	36·0	35·5	37·0	0·4	1·1	4·0	50·4	47·6	50·0	49·2	44·0	42·6	40·1	40·5	0·7	0·3	4·0
12	56·2	56·5	56·1	56·2	50·0	48·0	42·5	42·5	0·2	0·7	1·1	45·4	45·3	44·1	45·4	34·2	32·0	29·2	31·0	2·1	4·6	6·6	50·9	50·0	50·0	51·6	43·0	37·0	39·7	39·5	..	..	..
13	60·5	61·5	60·9	60·0	46·5	42·8	40·6	42·5	..	2·4	3·2	46·6	46·2	45·6	45·5	34·1	29·2	27·8	29·7	3·0	5·3	5·7	54·9	54·0	54·0	54·0	41·5	39·5	40·0	39·7	0·1	1·4	2·4
14	63·9	64·0	64·6	62·6	48·7	48·0	46·3	47·0	1·3	4·3	4·3	44·8	46·0	43·1	42·6	35·1	28·0	29·9	30·0	0·3	0·9	2·8	54·8	54·0	54·2	53·8	50·1	50·0	41·1	40·3	..	..	..
15	58·8	59·2	59·1	57·3	50·5	48·5	48·5	48·9	3·7	5·3	7·1	49·4	48·0	43·1	42·3	32·4	28·0	29·7	29·3	..	4·0	4·7	47·6	46·0	45·9	45·8	39·0	36·8	37·5	38·2	..	0·3	0·4
16	60·4	60·0	60·3	59·5	50·2	48·8	50·0	50·0	1·6	3·0	3·5	50·4	50·0	49·6	49·2	34·0	32·0	38·3	38·2	0·2	0·3	0·4	39·9	39·5	39·5	40·0	36·5	35·5	33·7	34·6	0·4	0·4	1·3
17	59·0	59·2	59·2	58·0	53·0	50·5	45·8	47·4	4·4	4·5	5·1	50·4	49·2	50·9	48·9	39·0	34·0	33·8	31·6	0·1	0·8	0·4	39·4	39·0	38·9	38·9	34·8	33·9	34·0	34·9	..	..	0·7
18	56·1	55·2	55·6	54·5	44·2	43·0	42·4	43·3	5·6	7·8	8·4	51·2	48·8	50·9	49·8	35·0	33·5	33·8	33·0	..	2·7	2·7	44·3	39·7	40·0	40·3	33·8	32·8	33·2	33·7	..	..	0·8
19	57·2	53·2	56·2	56·8	48·0	47·0	46·7	47·5	..	..	..	50·4	50·0	50·9	50·5	37·2	36·6	40·2	39·6	0·8	4·1	5·4	44·9	41·5	43·8	44·1	35·8	32·9	38·8	37·2	..	..	1·4
20	51·9	50·8	51·8	50·7	46·5	45·0	39·1	38·7	0·3	0·4	1·0	49·2	48·0	48·6	47·8	40·2	39·0	38·9	39·2	0·5	3·1	3·3	48·4	47·2	47·1	46·8	37·0	35·5	35·7	36·0	..	..	..
21	55·4	55·0	56·2	54·1	40·0	37·9	38·6	38·4	2·1	7·1	8·3	53·9	53·0	52·1	52·6	40·1	38·2	38·5	37·7	0·2	1·4	2·5	49·2	48·9	48·8	48·2	42·0	41·5	40·2	40·4	..	0·8	1·1
22	51·5	50·0	51·1	48·3	41·9	38·0	36·7	38·6	0·2	1·1	3·0	50·5	49·8	50·0	49·5	43·2	41·0	41·0	40·9	0·1	0·6	0·9	50·9	50·4	50·7	49·5	43·5	41·2	41·7	42·1	..	0·9	1·2
23	57·4	57·2	56·8	57·4	43·7	40·0	40·0	39·8	0·1	0·2	0·5	48·9	47·5	45·1	45·8	36·1	34·2	34·7	34·9	0·2	1·4	5·0	45·9	44·4	49·2	49·4	42·5	39·0	31·5	32·4	..	..	1·4
24	59·0	58·0	57·6	58·1	45·5	42·8	43·2	43·1	..	0·2	1·0	54·7	54·0	52·0	52·0	37·5	35·5	37·2	38·2	0·8	2·1	3·0	49·4	48·0	48·0	47·5	38·5	33·0	34·0	32·6	..	..	..
25	61·2	61·0	61·4	60·2	48·2	47·0	54·9	55·3	..	1·7	0·3	55·4	54·8	55·1	54·6	48·2	47·0	47·0	48·0	..	..	0·1	44·9	42·4	44·5	44·9	43·0	42·0	38·5	40·0	..	..	..
26	59·4	59·1	59·1	59·3	55·5	54·1	52·7	53·1	..	..	0·2	51·4	50·8	50·2	50·9	46·2	39·0	40·0	38·7	..	2·0	2·5	42·6	42·5	41·9	41·9	38·0	37·0	36·7	36·9	..	..	..
27	61·2	62·2	62·9	60·6	54·2	52·2	45·5	43·1	0·6	4·0	3·4	51·7	50·5	49·6	48·8	39·0	37·0	37·5	36·4	..	3·5	4·3	41·7	39·8	38·2	39·1	35·0	35·0	34·2	35·6	..	..	..
28	60·2	58·8	59·8	59·6	46·8	46·0	42·9	43·0	2·0	4·8	4·3	56·6	56·4	56·2	55·3	41·0	38·4	45·7	38·3	..	4·2	4·3	43·9	42·0	40·6	42·6	35·0	36·0	38·2	38·8	..	..	..
29	58·4	57·7	57·8	54·9	51·0	49·3	47·3	50·2	0·1	0·6	..	49·5	49·0	48·2	48·4	44·4	41·5	38·1	36·0	..	3·5	3·4	41·0	40·0	40·3	41·3	38·5	37·9	37·4	38·8	..	..	..
30	54·4	53·8	54·1	53·0	47·8	45·5	46·3	47·2	..	..	..	52·1	51·3	51·1	50·6	43·5	41·8	39·7	41·0	..	0·4	1·1	39·9	39·0	38·2	39·1	37·9	36·9	35·9	36·5	..	..	..
31	53·1	52·0	52·3	52·5	50·0	48·0	47·3	48·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	39·2	38·0	38·1	37·9	35·6	34·8	35·0	35·8	..	..	..
Means	57·2	56·9	57·1	56·4	47·4	45·4	44·5	44·9	1·4	2·3	2·8	50·8	50·0	49·6	49·2	39·9	37·4	37·9	37·6	0·5	2·0	2·7	45·2	43·9	44·1	44·2	38·2	36·4	36·1	36·6	0·1	0·4	1·0

Note.—At Old Street and Regent's Park the thermometers are read at 9 a.m., the maximum temperature being entered to the previous day; while at Greenwich the thermometers are read at 9 p.m., and at Kew at 10 p.m., the temperature being entered to the civil day. At Old Street and Regent's Park the thermometers are mounted in Stevenson screens; at Greenwich on a Glaisher stand; and at Kew in the thermograph screen.

Abstract of Meteorological Observations for the Month of NOVEMBER, 1888.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature. 9 a.m.	9 p.m.	Mean.	Means of Min.	Means of Max.	Absolute Min. and Max. Min.	Date.	Max.	Date.	Wet Bulb Therm. 9 a.m.	9 p.m.	Relative Humid. 9 a.m.	9 p.m.	Amount of Cloud. 9 a.m.	9 p.m.	Rainfall. Total Fall.	Greatest Fall in 24 hours. Amnt.	Date.	Weather. No. of days of Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	Wind. No. of Observations of N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.															
Alnwick	29·651	40·6	39·8	40·2	36·0	46·9	27·3	8	56·4	3	39·0	38·2	87	87	6·3	4·0	1·64	·22	4	19	4	3	6	0	0	0	0	3	6	12	14	8	17
Cramlington..	·658	41·0	39·3	40·1	34·9	46·8	27·9	18	56·8	28	39·6	38·1	88	90	6·9	4·7	1·59	·23	21	23	3	0	4	1	6	1	0	0	2	20	17	12	2
Scaleby	·667	40·1	39·6	39·8	35·4	46·9	22·0	12	56·8	28	39·5	38·9	95	94	7·3	6·1	4·57	·50	25	22	3	2	11	1	6	3	0	8	4	23	7	1	8
Rounton	·693	40·8	39·7	40·3	35·6	46·5	26·0	12	56·0	28	39·9	38·9	93	93	6·5	4·5	1·71	·34	30	20	1	2	5	4	4	0	0	1	15	25	2	4	9
Scarborough..	·700	42·8	42·0	42·4	38·6	46·6	32·9	10	55·0	28	41·1	40·4	87	87	6·2	4·8	3·05	·81	30	23	2	2	6	0	5	3	0	1	1	11	26	11	2
Wakefield	·738	42·7	41·2	42·0	37·4	47·7	27·4	12	59·4	28	40·7	39·3	84	85	7·1	6·1	2·00	·41	19	16	0	2	10	0	3	0	2	3	8	19	17	8	0
Buxton	·773	40·0	38·6	39·3	34·1	44·9	19·0	12	52·2	28	38·6	37·4	88	90	7·1	6·8	5·33	·83	4	21	7	0	7	0	0	4	2	0	2	18	19	6	9
Cheadle	·785	40·1	39·6	39·8	35·5	46·4	29·0	14	54·9	28	39·1	38·6	92	92	5·8	5·4	3·69	·80	5	20	3	5	7	2	3	4	5	2	10	15	6	10	5
Llandudno ..	·749	45·9	45·1	45·5	41·1	50·1	31·8	13	59·0	28	43·5	42·8	82	82	7·2	6·4	2·71	·52	30	19	0	1	12	0	3	2	1	1	5	6	39	3	0
Leaton	·788	41·4	39·5	40·4	34·2	46·7	21·4	13	57·0	28	40·2	38·6	90	93	6·3	6·2	3·43	·95	6	16	0	2	9	..	1	1	7	1	7	8	32	3	0
Churchstoke..	·800	41·2	40·4	40·8	35·2	47·9	20·3	13	57·2	28	39·9	39·1	89	89	7·0	5·5	5·13	1·13	5	17	0	2	7	0	0	1	1	10	1	23	14	7	3
Cheltenham ..	·811	41·9	41·9	41·9	35·5	48·3	20·5	15	57·5	28	40·9	40·9	92	92	6·7	5·6	3·12	·49	30	21	0	1	10	2	1	0	0	2	9	15	8	6	19
Carmarthen ..	·805	43·5	43·0	43·2	37·7	50·2	25·1	14	57·1	3	42·1	41·7	89	90	6·6	6·3	6·89	·81	15	25	0	2	10	0	3	0	6	0	2	6	23	1	19
Babbacombe..	·880	46·5	44·9	45·7	40·4	51·9	28·1	14	57·0	28	44·7	43·6	86	90	6·9	6·1	4·54	1·03	11	24	0	2	11	7	5	4	2	0	8	21	18	1	1
Downside	·844	42·6	42·0	42·3	37·6	48·3	27·2	14	54·1	28	41·4	41·0	90	92	7·2	5·0	5·97	1·00	5	19	0	2	9	3	1	4	2	1	5	28	12	7	0
Marlborough	·860	41·4	40·6	41·0	35·3	48·4	23·4	15	54·1	28	40·5	39·8	92	93	6·8	6·0	4·17	·60	5	20	1	2	10	0	4	2	5	1	4	16	21	1	6
Strathfield T.	·863	43·5	42·1	42·8	35·9	50·4	23·2	13	56·8	28	42·1	40·9	89	90	5·7	4·8	2·74	·44	24	22	0	3	6	0	3	1	2	1	3	16	17	10	7
Norwood	·859	42·4	42·7	42·5	38·1	49·3	28·8	15	56·5	6	41·3	41·3	91	89	6·5	5·8	2·94	·40	25	20	0	2	8	1	4	0	1	1	6	12	23	2	11
Croydon	·856	42·9	42·9	42·9	38·4	49·7	29·0	13	56·1	6	41·4	41·2	88	87	6·9	4·4	3·75	·53	25	20	0	3	8	4	0	1	1	2	9	23	15	0	9
Southbourne	·871	45·2	45·2	45·2	40·0	51·3	26·8	15	57·6	6	43·4	43·5	86	87	6·2	4·2	3·79	·54	23	18	0	5	7	2	5	5	0	1	5	15	17	11	1
Margate	·859	44·7	43·5	44·1	39·3	49·7	33·7	15	56·9	6	43·4	42·0	90	88	6·3	5·0	3·17	·48	22	17	0	4	8	0	0	0	0	1	9	21	15	8	6
Hillington....	·787	41·7	40·2	40·9	36·4	47·5	24·2	12	55·3	25	40·9	39·5	93	94	7·6	6·3	4·00	·79	30	21	3	2	11	1	1	2	2	1	3	8	29	6	9	0
Lowestoft ...	·790	43·2	42·0	42·6	38·0	48·8	31·0	12	56·7	1	41·9	40·7	90	89	7·4	6·0	3·50	·77	5	21	0	2	11	1	3	0	0	2	2	14	27	12	0
Dublin	·747	42·8	43·9	43·3	39·6	49·2	29·4	15	58·7	28	40·9	42·0	85	85	5·7	5·2	3·07	·88	5	19	3	6	8	0	0	1	1	4	4	9	32	2	7
Killarney	29·785	46·3	45·9	46·1	40·1	52·4	29·9	7	57·3	18	44·4	44·0	86	86	7·4	7·1	7·47	·96	24	29	0	1	11	8	2	0	3	3	4	12	22	6	8
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Alnwick	..	..	..	●	..	●	..	..	..	●	..	●	●	●✱	●≡	●≡	●	●	●✱	●✱	●✱	..	●	●	●	●	●	..	..	●
Cramlington		..	..	●	●	●	..	●	●	●	ψ	●	●▲	●	●≡	●≡	●	●	●✱▲	●✱	●✱	●	●	●	●	●≡	●	..	..	●
Scaleby	..	●	●	●	●	..	..	●▲	●▲ᴛ	..	..	..	≡	..	●	●	●	●✱▲	●✱▲	●✱▲	●ϟ	●	●	●	●	●	●	●	●
Rounton	..	..	●	●ᚣ	●	●	..	●	●	..	..	●	..	●	●	●≡	●	●	●	●✱	●	●	●	●	..	..	●	..	..	●
Scarborough	●	..	●≡	●	●	●	..	●	●	●	●	●	●	●	●	●	●	●	●✱	●✱	●	..	●	●	..	..	●	..	..	●
Wakefield ..	..	..	..	●	●	..	●	●	●	..	..	..	..	..	●	●	●	●	●▲	●▲	●	●	..	●	●	..	●	..	..	..
Buxton	≡	≡	●	●	●	..	●	●	●	●✱▲	..	≡	..	..	●✱	●✱	●	●	●✱	●✱	●✱▲	●	●✱	●	●	●	●	..	..	●
Cheadle	..	●	●	●	●	..	●	●	●	●✱	ψ	..	..	..	●✱	●	●	●	●✱▲	●	●	●	●	●	●	●	●	..	..	●
Llandudno ..	≡	●≡	●	●	●	..	●	●	●▲	..	..	..	..	..	●	●≡	▲	●▲≡	●▲	●▲	●	≺Ψ	●	●	●	●	..	..	●	●
Leaton	≡	≡	..	●	●	●	●	●	●	..	..	≡	..	..	●	●	●	●	●▲	●	●	..	●	..	●	●	..	..	..	●
Churchstoke	≡	≡	..	●	●	..	..	●	●▲	●▲	..	≡ψ	..	..	●	●	●	●	●	●▲ϟ	●▲	ᴛ	●	●	●	●	..	..	..	●
Cheltenham	≡	●≡	●≡	●	●	●	●	●≡	●	●	≡	≡	≡	≡	●≡	●	●ϟ	●	●	●▲ϟ	●	●	●	●	●	●	..	..	..	●
Carmarthen ..	..	●	●	●	●	●	●≡	●≡	●	●	●	..	..	..	●	●	●	●	●	●	●	●▲	●	●	●▲≺	..	●	●	●	●
Babbacombe ..	..	●	●	●	●○	○	●ψ	●	●	●	●≡	●	..	..	●	●	●ψ	●≡	●	●	●	●	●○	●ϟ○	●▲ϟ≺	●	●	..	..	●
Downside ..	≡	≡	≡	●	●	●	●○	●	●	..	●	..	≡	≡	●≡	●	▲ϟ	●	●▲	●▲ϟ	●	●	●	..	●	●	..	..	●	●
Marlborough ..	..	≡	●≡	●≡	●	●	●≡	●≡	●	..	●	..	≡	≡	●≡	..	●	●	●	●	●	●	●✱	●	●	●	..	..	..	●
Strathfield T.	●	●≡	●≡	●	●	●	●≡	●≡	●	..	●	..	≡	≡	●≡	..	●ᴛ	●	●	●	●	●	●	●	●≺	..	..	●	●	●
Norwood ..	≡	●≡	●≡	●	●○	●	●≡○	●≡	●	≡	○ψ	≡	≡	≡	●≡	≡	●	●	●	●▲≺	●	●▲≺	●	●	●≺	○	..	..	○	●
Croydon	..	●	..	●	●○	●	●≡	●≡	●	≡	..	≡	≡	≡	●≡	..	●	●≡	●	●	●	●▲	●≡	●○	●▲	●▲≺	≡	●≡○	≡	●≡
Southbourne	..	..	..	●	●	..	●	●	●	..	●	..	..	..	●	..	●	●	●	●	●	●	●	●	●▲ϟ	●	..	..	..	●
Margate . ..		..	..	●	●	●	●ϟ	●≡	≺	..	ψ	..	..	..	●	●	●	●	●	●	●	●	..	●	●	●	..	..	..	●
Hillington ..	..	●	●≡	●	●	●	●	●≡	●▲	..	..	●	▲	●	●✱	✱	●≡	●≡	●✱▲	●	●▲	●	●	●	●	≺	..	..	..	●
Lowestoft ..	..	..	..	●	●	●	..	●	●	..	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	..	..	..	..	●
Dublin	≡	..	●	●	●○	..	≡	●	●	..	●≡	●≡	≡	≡	●≡	●	..	●	●✱▲	●✱▲	●	✱	●○	●	●≺	..	●	Ψ	●	●
Killarney ..	●	●	●	●	●	●	●	●	●▲	●▲	●	●≡	..	●	●	●▲	●	●	●▲≺	●	●	●	●	●	●	●	●	●	●	●

FOR THE QUARTER ENDING DECEMBER 31, 1883. 61

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✱ snow; ▲ hail; ≡ fog; ϟ thunderstorm; ᴛ thunder; ≺ lightning; ○ solar halo; ψ lunar halo; Ψ aurora.

Abstract of Meteorological Observations for the Month of DECEMBER, 1883.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of						Wind. No. of Observations of							
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.															
Alnwick	30·025	39·2	39·4	39·3	35·2	44·9	28·6	27	54·5	13	37·7	38·3	87	91	5·7	5·9	2·34	·35	15, 16	17	1	2	7	0	5	1	1	1	4	5	17	11	17
Cramlington	·038	39·3	39·1	39·2	34·1	44·0	29·0	10	52·4	13	37·6	37·9	86	90	7·0	6·7	2·34	·63	15	17	6	1	11	1	10	5	1	1	1	10	15	19	0
Scaleby.....	·069	38·6	39·5	39·1	34·3	44·3	22·0	7	52·5	13	38·1	38·8	96	94	7·5	7·4	2·60	·46	10	16	2	2	14	5	2	1	2	4	0	25	11	5	12
Rounton	·067	38·8	39·1	38·9	34·5	43·3	27·0	7	53·8	13	37·7	38·0	91	91	6·6	7·0	1·32	·39	16	19	6	1	13	4	12	0	1	3	7	19	5	9	6
Scarborough	·058	40·7	41·2	40·9	36·9	44·8	33·0	16	53·9	13	38·9	39·5	85	86	6·8	7·3	2·19	·46	15	23	2	1	12	2	6	7	1	2	1	7	23	12	3
Wakefield....	·120	40·5	41·5	41·0	37·3	45·6	28·6	7	55·0	14	39·0	39·8	88	86	7·7	7·2	1·17	·24	11	17	1	1	13	2	4	1	3	4	4	10	24	12	0
Buxton	·144	37·0	37·7	37·3	32·6	42·5	25·0	7	51·1	14	35·9	36·8	90	92	7·4	8·0	4·92	1·21	10	15	4	2	18	0	0	2	0	3	0	11	15	28	3
Cheadle	·148	37·7	38·5	38·1	34·9	42·8	26·2	7	51·7	14	36·7	37·5	91	92	7·1	6·8	1·72	·56	10	16	3	2	14	4	9	0	4	3	2	10	15	14	5
Llandudno ..	·153	43·6	44·1	43·9	40·2	47·2	32·5	7	54·0	24	41·8	42·2	86	85	7·5	8·2	2·09	·77	10	14	0	1	16	3	10	6	1	2	4	9	23	7	0
Leaton	·179	40·3	40·5	40·4	35·8	45·0	24·5	6	53·8	14	38·8	39·2	88	89	6·9	7·5	·66	·24	10	14	0	3	18	..	9	4	4	2	1	8	26	8	0
Churchstoke..	·187	39·3	40·5	39·9	35·3	45·3	23·4	7	54·0	24	37·7	38·9	87	87	7·0	8·0	1·44	·61	10	11	1	0	15	4	3	5	3	2	0	11	20	16	2
Cheltenham ..	·186	39·6	40·0	39·8	35·3	44·8	22·4	6	54·8	3	38·4	38·9	90	91	7·8	5·8	·75	·22	15	15	2	1	14	3	9	2	2	0	6	11	14	3	15
Carmarthen	·217	41·5	41·9	41·7	37·2	46·9	26·1	7	53·3	3	40·1	40·6	89	89	6·8	8·4	2·93	·79	15	21	0	1	15	1	8	1	3	1	2	6	9	3	29
Babbacombe..	·253	42·1	41·9	42·0	38·7	46·9	30·0	8	54·0	20	40·4	40·3	86	87	7·2	7·0	·65	·16	15	13	1	4	16	6	10	4	4	1	2	14	17	9	1
Downside	·214	39·1	39·4	39·2	34·7	44·0	26·3	7	52·0	14	37·7	38·2	89	90	7·2	7·1	1·66	·85	10	15	0	2	15	5	8	8	2	0	0	19	13	11	1
Marlborough	·213	38·1	38·4	38·2	34·2	43·5	25·4	6	51·4	14	37·1	37·3	91	91	8·5	7·4	1·02	·20	10	16	2	1	20	0	13	2	3	1	0	10	15	7	11
Strathfield T.	·201	40·0	39·5	39·7	34·8	45·0	26·2	6	54·4	13	38·7	38·3	89	90	7·5	6·9	·57	·19	10	12	2	2	15	0	9	3	1	2	1	4	15	17	10
Norwood	·186	39·7	40·1	39·9	36·3	44·7	29·0	6	54·6	14	38·2	38·4	88	86	8·5	7·7	·70	·39	10	16	4	2	21	1	12	3	1	2	5	4	19	11	5
Croydon	·182	39·6	40·0	39·8	35·9	45·0	28·2	7	54·9	14	38·1	38·3	88	86	8·4	7·5	·62	·36	10	14	5	2	18	0	5	6	2	1	2	11	19	7	9
Southbourne	·218	41·1	41·1	41·1	37·5	45·7	23·1	8	54·8	3	39·5	39·3	87	85	6·7	6·1	·80	·34	10	15	1	6	16	0	4	5	4	0	0	9	11	19	10
Margate	·153	40·6	40·3	40·5	36·7	45·0	28·8	9	54·3	14	39·2	38·9	89	88	8·2	6·9	1·30	·43	10	15	2	1	16	0	4	4	5	1	4	14	9	9	12
Hillington ..	·110	38·7	39·1	38·9	35·3	43·2	27·2	7	53·3	14	37·8	38·3	92	93	8·3	8·1	2·17	·42	10	17	5	0	17	4	6	6	3	3	3	19	8	14	0
Lowestoft	·089	39·8	39·9	39·9	35·6	44·5	29·2	6	53·6	14	38·4	38·4	89	88	8·1	8·1	2·10	·50	4	17	5	1	19	2	4	9	4	0	2	4	22	16	1
Dublin	·182	42·2	42·7	42·5	38·1	47·1	30·2	7	55·0	14	40·3	40·7	85	84	6·1	6·5	1·26	·53	10	13	0	2	9	3	3	1	3	2	2	5	36	7	3
Killarney	30·252	42·6	43·5	43·0	36·6	49·5	20·1	7	56·7	13	40·9	42·0	87	88	6·4	6·7	2·96	·60	13	16	1	2	9	5	4	1	2	0	3	8	16	7	21
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

Phenomena observed at the Stations during NOVEMBER, 1888.

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Alnwick	..	..	..	●	..	●	..	..	..	●	..	●	●	●✱	●≡	●≡	●	●	●✱	●✱	●✱	..	●	●	●	●	●	..	..	●
Cramlington		..	..	●	●	●	..	●	●	●	ψ	●	●▲	●	●≡	●≡	●	●	●✱▲	●✱	●✱	●	●	●	●	●≡	●	..	..	●
Scaleby	..	●	●	●	●	..	..	●▲	●▲ᵀ	..	..	..	≡	..	●	●	●	●✱▲	●✱▲	●✱▲	●ϟ	●	●	●	●	●	●	●	●
Rounton	..	..	●	●ᚣ	●	●	..	●	●	..	..	●	..	●	●	●≡	●	●	●	●✱	●	●	●	●	..	..	●	..	..	●
Scarborough	●	..	●≡	●	●	●	..	●	●	●	●	●	●	●	●	●	●	●	●✱	●✱	●	..	●	●	..	..	●	..	..	●
Wakefield ..	..	..	..	●	●	..	●	●	●	..	..	..	..	..	●	●	●	●	●▲	●▲	●	●	..	●	●	..	●	..	..	..
Buxton	≡	≡	●	●	●	..	●	●	●	●✱▲	..	≡	..	..	●✱	●✱	●	●	●✱	●✱	●✱▲	●	●✱	●	●	●	●	..	..	●
Cheadle	..	●	●	●	●	..	●	●	●	●✱	ψ	..	..	..	●✱	●	●	●	●✱▲	●	●	●	●	●	●	●	●	..	..	●
Llandudno ..	≡	●≡	●	●	●	..	●	●	●▲	..	..	..	..	..	●	●≡	▲	●▲≡	●▲	●▲	●	ᚣψ	●	●	●	●	..	..	●	●
Leaton	≡	≡	..	●	●	●	●	●	●	..	..	≡	..	..	●	●	●	●	●▲	●	●	..	●	..	●	..	..	..	..	●
Churchstoke	≡	≡	..	●	●	..	..	●	●▲	●▲	..	≡ψ	..	..	●	●	●	●	●	●▲ϟ	●▲	ᵀ	●	●	●	●	..	..	..	●
Cheltenham	≡	●≡	●≡	●	●	●	●	●≡	●	●	≡	≡	≡	≡	●≡	●	●ϟ	●	●	●▲ϟ	●	●	●	●	●	●	..	..	..	●
Carmarthen	..	●	●	●	●	●	●≡	●≡	●	●	●	..	..	..	●	●	●	●	●	●	●	●▲	●	●	●▲ᚣ	..	●	●	●	●
Babbacombe	..	●	●	●	●○	○	●ψ	●	●	●	●≡	●	..	..	●	●	●ψ	●≡	●	●	●	●	●○	●ϟ○	●▲ϟᚣ	●	●	..	..	●
Downside ..	≡	≡	≡	●	●	●	●○	●	●	..	●	..	≡	≡	●≡	●	▲ϟ	●	●▲	●▲ϟ	●	●	●	..	●	●	..	..	●	●
Marlborough	..	≡	●≡	●≡	●	●	●≡	●≡	●	..	●	..	≡	≡	●≡	..	●	●	●	●	●	●	●✱	●	●	●	..	..	..	●
Strathfield T.	●	●≡	●≡	●	●	●	●≡	●≡	●	..	●	..	≡	≡	●≡	..	●ᵀ	●	●	●	●	●	●	●	●ᚣ	..	..	●	..	●
Norwood ..	≡	●≡	●≡	●	●○	●	●≡○	●≡	●	≡	○ψ	≡	≡	≡	●≡	≡	●	●	●	●▲ᚣ	●	●▲ᚣ	●	●	●ᚣ	○	..	●	○	●
Croydon	..	●	..	●	●○	●	●≡	●≡	●	≡	..	≡	≡	≡	●≡	..	●	●≡	●	●	●	●▲	●≡	●○	●▲	●▲ϟ	≡	●≡○	≡	●≡
Southbourne	..	..	..	●	●	..	●	●	●	..	●	..	..	..	●	..	●	●	●	●	●	●	●	●	●▲ᚣ	●	..	..	..	●
Margate . ..		..	..	●	●	●	●ᚣ	●≡	ᚣ	..	ψ	..	..	..	●	●	●	●	●	●	●	●	..	●	●	●	..	..	..	●
Hillington ..	..	●	●≡	●	●	●	●	●≡	●▲	..	..	●	▲	●	●✱	✱	●≡	●≡	●✱▲	●	●▲	●	●	●	●	ᚣ	..	..	..	●
Lowestoft ..	..	..	..	●	●	●	..	●	●	..	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	..	..	..	..	●
Dublin	≡	..	●	●	●○	..	≡	●	●	..	●≡	●≡	≡	≡	●≡	●	..	●	●✱▲	●✱▲	●	✱	●○	●	●ᚣ	..	●	Ψ	●	●
Killarney ..	●	●	●	●	●	●	●	●	●▲	●▲	●	●≡	..	●	●	●▲	●	●	●▲ᚣ	●	●	●	●	●	●	●	●	●	●	●

Explanation of the Symbols.—● indicates rain; ✱ snow; ▲ hail; ≡ fog; ᚴ thunderstorm; ᵀ thunder; ᚣ lightning; ○ solar halo; ψ lunar halo; Ψ aurora.

Station.	OCTOBER.												NOVEMBER.												DECEMBER.											
	Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.									Means.				Extremes in Month.								Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.		Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.		Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.			°	%	°	°	°	°	°	°	°		In.			°	%	°	°	°	°	°	°	°		In.	
Alnwick	46·9	84	40·7	54·6	13·9	47·6	26·6	72·5	45·9	5·7	2·41	17	40·6	87	36·0	46·9	10·9	41·5	27·3	56·4	29·1	6·3	1·64	19	39·2	87	35·2	44·9	9·7	40·0	28·6	54·5	25·9	5·7	2·34	17
Cramlington .	48·3	84	40·2	53·5	13·3	46·9	28·0	63·8	35·8	5·5	1·75	17	41·0	88	34·9	46·8	11·9	40·8	27·9	56·8	28·9	6·9	1·59	23	39·3	86	34·1	44·0	9·9	39·1	29·0	52·4	23·4	7·0	2·34	17
Stapleton	46·9	87	39·2	52·8	13·6	46·0	26·0	59·9	33·9	6·8	3·66	19	39·9	91	34·5	45·3	10·8	39·9	25·9	53·1	27·2	8·0	5·06	24	37·4	96	32·0	42·4	10·4	37·2	20·9	48·7	27·8	7·1	4·27	22
Scaleby	47·2	92	40·4	54·4	14·0	47·4	25·0	60·3	35·3	5·9	3·58	20	40·1	95	35·4	46·9	11·5	41·1	22·0	56·8	34·8	7·3	4·57	22	38·6	96	34·3	44·3	10·0	39·3	22·0	52·5	30·5	7·5	2·60	16
Alston	44·5	89	36·7	51·1	14·4	43·9	20·8	62·8	42·0	6·5	5·98	22	37·8	90	32·9	42·6	9·7	37·8	19·4	49·8	30·4	8·6	4·10	24	36·2	88	31·0	41·6	10·6	36·3	17·2	49·8	32·6	7·2	3·88	21
Seathwaite ..	47·0	83	41·9	53·3	11·4	47·6	28·5	61·6	33·1	7·3	15·34	21	41·6	84	37·8	46·0	8·2	41·9	24·5	51·9	27·4	8·6	19·55	23	40·2	84	36·1	44·6	8·5	40·3	22·4	53·4	31·0	7·9	14·80	22
St. Mich.-on-Wyre	49·1	85	42·3	54·9	12·6	48·6	27·0	60·1	33·1	7·1	4·76	17	42·0	89	36·5	47·9	11·4	42·2	22·5	56·8	34·3	7·6	4·49	22	39·7	91	36·1	44·4	8·3	40·2	25·4	51·3	25·9	7·5	2·53	20
Blackpool	49·6	87	43·8	54·0	10·2	48·9	26·5	59·3	32·8	6·2	3·33	17	43·7	87	38·7	48·0	9·3	43·4	25·1	54·7	29·6	6·5	4·43	24	41·7	88	37·9	45·0	7·1	41·4	25·1	50·0	24·9	7·4	1·91	20
Bolton	47·3	88	41·8	53·1	11·3	47·4	30·6	57·4	26·8	7·5	6·36	17	41·3	89	35·8	46·2	10·4	41·0	28·1	55·1	27·0	7·7	5·86	22	38·6	91	35·2	43·3	8·1	39·3	25·2	51·1	25·9	7·4	5·56	21
Rounton	48·1	89	40·6	53·8	13·2	47·2	26·0	68·5	42·5	5·5	3·03	20	40·8	93	35·6	46·5	10·9	41·0	26·0	56·0	30·0	6·5	1·71	20	38·8	91	34·5	43·3	8·8	38·9	27·0	53·8	26·8	6·6	1·32	19
Scarborough ..	50·3	84	45·3	54·7	9·4	50·0	37·8	68·2	30·4	5·5	3·47	16	42·8	87	38·6	46·6	8·0	42·6	32·9	55·0	22·1	6·2	3·05	23	40·7	85	36·9	44·8	7·9	40·8	33·0	53·9	20·9	6·8	2·19	23
Wakefield	48·7	83	42·9	55·1	12·2	49·0	33·0	63·6	30·6	7·1	3·31	21	42·7	84	37·4	47·7	10·3	42·5	27·4	59·4	32·0	7·1	2·00	16	40·5	88	37·3	45·6	8·3	41·5	28·6	55·0	26·4	7·7	1·17	17
Hodsock	49·0	85	41·2	56·2	15·0	48·7	30·9	68·4	37·5	5·3	3·33	18	41·7	89	36·5	47·9	11·4	42·2	23·3	56·3	33·0	5·8	2·54	21	39·5	88	36·2	44·7	8·5	40·4	28·9	56·3	27·4	7·5	1·17	19
Strelley	47·9	90	41·7	54·7	13·0	48·2	31·9	67·2	35·3	6·0	2·51	20	40·1	94	35·3	46·7	11·4	41·0	26·1	55·1	29·0	6·7	3·76	22	38·4	90	35·2	43·1	7·9	39·2	28·9	53·0	24·1	6·6	1·23	19
Belper	47·1	89	42·1	53·9	11·8	48·0	33·0	63·1	30·1	5·3	3·51	18	41·0	90	36·1	46·6	10·5	41·4	25·3	55·0	29·7	5·4	3·83	22	39·2	89	36·2	43·6	7·4	39·9	30·9	53·0	22·1	5·4	1·59	14
Cheadle	46·8	91	42·0	53·1	11·1	47·5	32·8	59·1	26·3	6·1	3·67	20	40·1	92	35·5	46·4	10·9	41·0	29·0	54·9	25·9	5·8	3·69	20	37·7	91	34·9	42·8	7·9	38·8	26·2	51·7	25·5	7·1	1·72	16
Oakamoor	48·6	87	40·1	54·6	14·5	47·3	29·3	60·7	31·4	7·9	4·31	17	41·0	..	33·5	47·2	13·7	40·4	22·5	56·2	33·7	8·2	4·14	18	39·4	88	35·4	44·5	9·1	39·9	24·6	53·0	28·4	9·2	2·17	15
Buxton	46·5	86	40·2	52·3	12·1	46·2	26·5	59·8	33·3	7·4	6·87	17	40·0	88	34·1	44·9	10·8	39·5	19·0	52·2	33·2	7·1	5·33	21	37·0	90	32·6	42·5	9·9	37·6	25·0	51·1	26·1	7·4	4·92	15
Macclesfield ..	47·2	94	41·3	53·3	12·0	47·3	30·3	58·1	27·8	6·6	5·16	21	40·3	93	35·9	46·2	10·3	41·0	23·4	54·2	30·8	6·5	3·45	19	38·1	93	34·6	43·4	8·8	39·0	22·5	51·6	29·1	7·5	2·66	17
Chester	50·0	83	43·4	55·8	12·4	49·6	28·8	64·3	35·5	8·3	3·41	17	42·4	87	36·9	48·6	11·7	42·7	22·3	57·6	35·3	7·8	2·61	21	41·3	84	37·4	46·0	8·6	41·7	26·5	55·2	28·7	8·9	1·23	14
Leaton	48·9	90	41·8	54·6	12·8	48·2	30·0	65·0	35·0	..	2·91	18	41·4	90	34·2	46·7	12·5	40·5	21·4	57·0	35·6	6·3	3·43	16	40·3	88	35·8	45·0	9·2	40·4	24·5	53·8	29·3	6·9	·66	14
Churchstoke ..	49·0	86	42·3	54·7	12·4	48·5	31·1	66·2	35·1	7·6	2·95	15	41·2	89	35·2	47·9	12·7	41·6	20·3	57·2	36·9	7·0	5·13	17	39·3	87	35·3	45·3	10·0	40·3	23·4	54·0	30·6	7·0	1·44	11
Kenilworth ..	49·2	89	42·8	54·9	12·1	48·9	36·3	61·7	25·4	6·4	2·57	18	40·7	93	34·9	47·9	13·0	41·4	23·3	55·7	32·4	5·7	3·94	22	38·8	88	35·0	43·3	8·3	39·1	27·1	53·6	26·5	7·6	·97	16
Burghill	49·8	88	43·1	56·5	13·4	49·8	32·1	63·8	31·7	6·8	2·87	18	41·9	89	35·5	49·8	14·3	42·6	22·5	58·4	35·9	5·6	3·25	20	40·0	86	36·6	45·9	9·3	41·3	28·8	55·5	26·7	7·7	·52	10
Ross	50·7	83	42·9	56·5	13·6	49·7	32·0	61·7	29·7	6·4	2·49	20	43·2	86	36·8	49·1	12·3	42·9	20·4	56·5	36·1	5·6	3·16	20	40·4	85	36·5	45·5	9·0	41·0	26·5	55·0	28·5	6·4	·84	7
Cheltenham	49·6	90	42·0	55·8	13·8	48·9	30·0	61·8	31·8	7·0	2·45	17	41·9	92	35·5	48·3	12·8	41·9	20·5	57·5	37·0	6·7	3·12	21	39·6	90	35·3	44·8	9·5	40·1	22·4	54·8	32·4	7·8	·75	12

Station.	OCTOBER.												NOVEMBER.												DECEMBER.											
	Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.			Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.			Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.								Means.				Extremes in Month.								Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.		°	o/o	°	°	°	°	°	°	°		In.		°	o/o	°	°	°	°	°	°	°		In.	
Llandudno	52·1	81	46·9	55·1	8·2	51·0	38·5	61·0	22·5	6·0	4·12	20	45·9	82	41·1	50·1	9·0	45·6	31·8	59·0	27·2	7·2	2·71	19	43·6	86	40·2	47·2	7·0	43·7	32·5	54·0	21·5	7·5	2·09	14
Carmarthen ..	50·9	86	44·4	56·5	12·1	50·4	32·2	62·0	29·8	6·5	5·43	22	43·5	89	37·7	50·2	12·5	44·0	25·1	57·1	32·0	6·6	6·89	25	41·5	89	37·2	46·9	9·7	42·0	26·1	53·3	27·2	6·8	2·93	21
Cardiff.....	50·1	89	45·4	54·9	9·5	50·2	35·6	58·6	23·0	..	4·23	17	43·6	92	38·6	49·2	10·6	43·9	28·7	54·7	26·0	..	6·38	24	40·8	91	37·7	45·0	7·3	41·3	28·1	54·9	26·8	..	1·92	17
Weston-s-Mare	52·1	83	46·9	57·0	10·1	52·0	39·0	64·6	25·6	6·8	2·53	16	45·3	87	39·8	51·2	11·4	45·5	25·2	58·0	32·8	7·2	4·62	20	42·5	85	38·7	46·1	7·4	42·4	31·4	51·6	20·2	7·1	1·15	13
Ilfracombe ..	54·2	83	50·7	57·3	6·6	54·0	44·3	62·0	17·7	6·0	3·23	17	48·0	84	44·2	52·3	8·1	48·2	35·8	58·0	22·2	7·6	5·51	23	45·6	84	42·8	48·7	5·9	45·8	35·3	54·0	18·7	7·0	1·53	15
Bude	52·7	89	47·1	57·6	10·5	52·3	35·1	62·0	26·9	6·7	3·58	15	47·0	91	41·6	52·5	10·9	47·1	29·1	58·0	28·9	7·0	5·60	25	43·2	92	39·4	48·2	8·8	43·8	27·1	53·0	25·9	7·8	1·19	11
Helston	53·8	85	47·9	58·8	10·9	53·4	38·3	63·3	25·0	7·5	3·29	16	48·8	88	42·7	55·1	12·4	48·9	31·5	59·2	27·7	7·8	5·16	22	..	..	..	..	..	..	..	..	..	..	1·09	20
Falmouth	54·3	83	49·2	57·1	7·9	53·1	41·3	60·1	18·8	7·1	4·26	16	49·3	84	43·8	53·0	9·2	48·4	35·4	56·1	20·7	7·1	8·23	26	45·2	83	41·7	48·6	6·9	45·2	30·8	53·8	23·0	7·5	1·80	20
Maker	51·4	88	46·6	57·3	10·7	51·9	37·2	63·5	26·3	6·7	2·58	20	47·0	87	42·9	51·8	8·9	47·4	34·0	55·8	21·8	7·8	4·33	25	42·7	87	39·4	46·9	7·5	43·1	27·4	52·5	25·1	6·9	1·09	20
Ashburton	52·5	87	45·9	57·3	11·4	51·6	38·5	61·5	23·0	6·3	5·67	19	46·1	91	40·7	51·9	11·2	46·3	33·4	57·0	23·6	6·5	6·41	23	42·0	91	37·9	46·8	8·9	42·3	28·1	53·9	25·8	7·0	1·74	18
Bridgetown....	51·9	87	44·1	58·6	14·5	51·3	30·9	65·3	34·4	7·0	4·40	19	45·1	90	37·5	52·7	15·2	45·1	24·2	58·5	34·3	7·1	5·96	23	41·4	89	36·6	47·8	11·2	42·2	21·5	55·0	33·5	7·0	1·32	19
Torquay, C. C.	52·2	86	46·3	56·5	10·2	51·4	39·0	61·9	22·9	7·2	2·78	17	47·3	87	41·6	51·8	10·2	46·7	31·0	57·3	26·3	6·4	4·26	23	43·4	88	39·0	47·2	8·2	43·1	27·5	54·2	26·7	6·7	·50	10
Babbacombe ..	52·7	83	45·9	57·3	11·4	51·6	36·1	64·2	28·1	6·6	3·03	17	46·5	86	40·4	51·9	11·5	46·1	28·1	57·0	28·9	6·9	4·54	24	42·1	86	38·7	46·9	8·2	42·8	30·0	54·0	24·0	7·2	·65	13
Teignmouth, B.	51·7	85	47·2	57·4	10·2	52·3	37·5	61·9	24·4	7·4	2·78	12	44·9	89	40·5	51·9	11·4	46·2	30·6	56·5	25·9	7·2	3·61	21	42·2	86	39·0	47·3	8·3	43·2	29·1	54·6	25·5	7·1	·48	9
Teignmouth, W.	52·7	87	46·4	59·1	12·7	52·8	37·2	64·2	27·0	6·7	3·12	15	46·3	92	40·6	53·3	12·7	46·9	32·1	58·0	25·9	6·6	4·05	22	42·6	89	38·7	47·8	9·1	43·3	28·8	56·6	27·8	6·1	·65	12
Sidmouth	52·2	86	46·2	56·8	10·6	51·5	36·2	60·8	24·6	7·6	2·91	18	46·2	88	40·4	51·6	11·2	46·0	30·3	55·9	25·6	7·7	3·75	26	42·0	88	38·5	46·4	7·9	42·5	28·2	55·5	27·3	7·8	·93	16
Brampford Spk.	51·0	90	44·1	56·0	11·9	50·1	33·5	60·8	27·3	7·0	3·92	19	43·1	95	37·0	50·0	13·0	43·5	26·4	55·4	29·0	6·9	3·54	24	40·7	90	36·8	46·1	9·3	41·4	24·9	54·8	29·9	7·0	1·25	20
Cullompton ..	51·5	87	43·8	57·1	13·3	50·4	31·7	63·2	31·5	6·8	3·54	20	43·6	90	36·7	50·9	14·2	43·8	23·3	57·6	34·3	7·6	4·36	24	40·5	87	36·3	46·0	9·7	41·2	22·2	55·2	33·0	7·1	1·67	17
Stowell	49·7	89	44·2	55·2	11·0	49·7	34·1	60·6	26·5	7·3	3·77	18	42·6	92	36·2	49·5	13·3	42·9	20·8	54·8	34·0	7·6	4·59	24	39·9	89	36·2	44·5	8·3	40·3	26·8	54·1	27·3	7·6	·96	15
Weymouth	53·0	79	48·1	57·2	9·1	52·7	40·0	62·3	22·3	6·3	1·89	11	47·6	81	42·1	52·1	10·0	47·1	33·2	56·5	23·3	5·9	3·47	18	43·2	82	39·4	46·5	7·1	42·9	28·0	53·5	25·5	6·9	·51	10
Swanage	52·9	82	47·2	55·3	8·1	51·3	38·8	59·9	21·1	6·5	2·24	8	47·2	85	41·6	50·4	8·8	46·0	32·1	55·8	23·7	6·1	3·55	16	42·6	85	38·1	45·3	7·2	41·7	27·9	52·7	24·8	6·8	·68	7
Southbourne ..	51·6	85	46·0	57·0	11·0	51·5	35·7	61·9	26·2	6·1	2·13	14	45·2	86	40·0	51·3	11·3	45·6	26·8	57·6	30·8	6·2	3·79	18	41·1	87	37·5	45·7	8·2	41·6	23·1	54·8	31·7	6·7	·80	15
Southampton..	50·7	87	43·1	57·3	14·2	50·2	32·6	63·6	31·0	6·6	2·70	21	43·1	91	35·8	50·9	15·7	43·1	24·8	56·1	31·3	7·1	4·38	25	39·9	90	35·5	44·7	9·2	40·1	25·3	53·3	28·0	7·7	·81	17
Portsmouth ..	51·9	87	46·0	59·1	13·1	52·6	38·5	66·7	28·2	5·5	2·24	12	45·6	97	39·8	52·6	12·8	46·2	31·2	60·1	28·9	5·6	3·98	22	41·3	92	37·5	45·4	7·9	41·4	28·3	53·5	25·2	6·9	·87	15
Ventnor	53·6	80	48·8	58·4	9·6	53·6	40·5	64·4	23·9	6·7	2·84	14	47·9	82	43·1	53·0	9·9	48·0	33·9	58·6	24·7	6·9	5·14	19	42·3	86	38·7	46·6	7·9	42·7	29·3	53·2	23·9	7·9	1·23	11
Worthing	52·6	84	46·4	57·7	11·3	52·0	36·7	64·0	27·3	5·9	2·64	12	45·7	89	39·1	51·2	12·1	45·2	29·6	56·7	27·1	5·6	4·27	20	41·0	86	36·9	45·0	8·1	40·9	28·8	53·2	24·4	7·0	1·10	15
Hastings	52·8	84	47·9	57·4	9·5	52·7	39·4	63·0	23·6	6·4	3·05	15	45·7	89	40·7	..	..	..	33·5	..	..	6·3	4·27	19	40·6	90	37·6	..	..	..	26·5	..	..	6·8	1·23	17

Abstract of Climatological Observations for the Quarter ending DECEMBER 31st, 1888.

Station.	OCTOBER.												NOVEMBER.												DECEMBER.											
	Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.								Rain.	
			Means.				Extremes in Month.									Means.				Extremes in Month.								Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.		°	o/o	°	°	°	°	°	°	°		In.		°	o/o	°	°	°	°	°	°		In.	
Ramsgate	52·6	83	46·2	56·8	10·6	51·5	36·9	62·4	25·5	7·1	1·51	14	44·8	88	38·6	50·3	11·7	44·4	32·3	57·5	25·2	6·8	3·05	19	40·3	88	36·5	44·3	7·8	40·4	27·0	54·0	27·0	7·5	1·33	19
Margate	52·3	84	46·9	56·4	9·5	51·6	37·4	61·7	24·3	7·4	1·79	15	44·7	90	39·3	49·7	10·4	44·5	33·7	56·9	23·2	6·3	3·17	17	40·6	89	36·7	45·0	8·3	40·9	28·8	54·3	25·5	8·2	1·30	15
Southend	52·1	91	46·8	56·6	10·1	51·8	38·6	62·0	23·4	6·7	1·59	11	43·3	94	38·8	49·4	10·6	44·1	32·0	56·0	24·0	7·2	2·33	17	39·6	90	36·6	44·3	7·7	40·5	28·5	53·0	24·5	7·5	·91	11
Downside	48·9	90	44·2	54·9	10·7	49·6	38·7	60·8	22·1	7·1	4·78	17	42·6	90	37·6	48·3	10·7	42·9	27·2	54·1	26·9	7·2	5·97	19	39·1	89	34·7	44·0	9·3	39·4	26·3	52·0	25·7	7·2	1·66	15
Marlborough ..	49·4	87	42·4	55·9	13·5	49·2	33·7	62·1	28·4	6·8	3·12	17	41·4	92	35·3	48·4	13·1	41·8	23·4	54·1	30·7	6·8	4·17	20	38·1	91	34·2	43·5	9·3	38·9	25·4	51·4	26·0	8·5	1·02	16
Strathfield Turg.	50·4	87	42·7	57·5	14·8	50·1	34·7	62·4	27·7	7·7	1·94	15	43·5	89	35·9	50·4	14·5	43·1	23·2	56·8	33·6	5·7	2·74	22	40·0	89	34·8	45·0	10·2	39·9	26·2	54·4	28·2	7·5	·57	12
Harestock	49·6	86	43·7	55·8	12·1	49·7	36·4	60·9	24·5	6·9	3·10	14	42·7	89	36·1	49·7	13·6	42·9	25·5	54·9	29·4	6·9	4·33	18	39·5	88	35·6	43·9	8·3	39·8	25·3	52·7	27·4	8·2	·82	12
Swarraton	49·6	87	42·6	55·6	13·0	49·1	32·9	60·6	27·7	7·5	2·87	14	41·4	93	34·7	49·5	14·8	42·1	21·0	55·3	34·3	6·8	3·98	16	39·1	..	35·5	43·8	8·3	39·7	26·5	54·6	28·1	8·1	·78	10
Tunb. Wells ..	50·1	91	44·3	55·2	10·9	49·7	36·9	60·7	23·8	6·9	2·76	19	42·6	95	36·7	48·9	12·2	42·8	29·4	54·2	24·8	6·2	4·48	20	38·3	93	34·7	42·2	7·5	38·5	24·4	52·5	28·1	7·6	1·10	10
Tunbridge	51·4	87	44·9	57·2	12·3	51·0	32·0	63·5	31·5	6·7	2·54	14	42·6	91	36·6	50·3	13·7	43·5	27·5	56·8	29·3	6·6	4·43	20	39·6	89	36·2	44·0	7·8	40·1	25·6	53·7	28·1	7·3	1·11	8
Beddington....	50·3	86	44·2	56·5	12·3	50·3	34·2	63·6	29·4	7·4	1·74	14	42·2	90	36·1	49·6	13·5	42·9	24·8	56·2	31·4	6·5	3·22	18	39·4	89	35·6	43·9	8·3	39·7	26·4	54·1	27·7	8·2	·56	8
Croydon	50·8	83	44·6	56·8	12·2	50·7	37·9	63·2	25·3	7·6	1·86	15	42·9	88	38·4	49·7	11·3	44·1	29·0	56·1	27·1	6·9	3·75	20	39·6	88	35·9	45·0	9·1	40·4	28·2	54·9	26·7	8·4	·62	14
South Norwood.	50·6	87	44·9	56·5	11·6	50·7	35·2	63·6	28·4	6·8	1·62	15	42·8	91	37·3	50·5	13·2	43·9	28·6	59·5	30·9	7·2	2·87	18	39·6	89	35·8	44·2	8·4	40·0	28·4	55·1	26·7	8·2	·56	13
Norwood	50·5	86	44·9	57·0	12·1	51·0	37·9	63·7	25·8	6·8	1·85	16	42·4	91	38·1	49·3	11·2	43·7	28·8	56·5	27·7	6·5	2·94	20	39·7	88	36·3	44·7	8·4	40·5	29·0	54·6	25·6	8·5	·70	16
Isleworth	51·2	87	44·3	57·6	13·3	51·0	35·2	64·6	29·4	7·3	1·57	14	42·7	91	36·2	50·6	14·4	43·4	26·1	57·3	31·2	7·1	2·53	19	40·2	89	36·4	44·4	8·0	40·4	28·6	54·1	25·5	8·6	·69	18
London, Old St.	51·7	82	47·4	57·2	9·8	52·3	40·0	63·9	23·9	7·8	1·91	19	44·6	87	39·9	50·8	10·9	45·3	32·4	56·6	24·2	7·8	2·84	20	41·2	86	38·2	45·2	7·0	41·7	29·9	54·9	25·0	8·4	·78	15
Regent's Park..	50·4	85	45·4	56·9	11·5	51·1	37·9	64·0	26·1	..	1·78	14	43·4	89	37·4	50·0	12·6	43·7	28·0	56·4	28·4	..	1·85	15	40·1	88	36·4	43·9	7·5	40·2	28·2	54·0	25·8	..	·68	15
Finchley	49·7	87	43·5	56·0	12·5	49·8	34·4	63·0	28·6	7·6	2·04	16	41·4	92	34·7	49·1	14·4	41·9	28·0	55·8	27·8	7·7	3·15	20	39·0	91	35·0	43·4	8·4	39·2	27·1	53·6	26·5	8·2	1·00	19
Watford	50·1	87	44·4	56·5	12·1	50·4	34·0	63·9	29·9	7·3	2·27	17	41·6	93	35·3	49·4	14·1	42·4	25·5	56·7	31·2	6·4	3·89	21	39·4	89	35·8	43·6	7·8	39·7	28·6	53·9	25·3	8·1	1·22	18
Throcking	48·9	..	43·3	55·3	12·0	49·3	35·1	63·9	28·8	7·8	2·02	13	40·8	95	35·7	47·7	12·0	41·7	28·9	54·4	25·5	6·7	2·71	22	37·4	93	34·3	41·7	7·4	38·0	25·2	51·8	26·6	8·1	1·01	12
Aspley Guise ..	49·9	88	43·5	55·3	11·8	49·4	36·5	65·0	28·5	6·6	1·91	19	42·8	90	36·2	48·7	12·5	42·5	25·4	56·1	30·7	6·5	2·91	20	38·6	92	34·9	42·8	7·9	38·8	27·0	53·4	26·4	8·3	·64	13
Hillington	49·9	91	43·6	56·1	12·5	49·9	35·1	66·4	31·3	8·1	2·72	18	41·7	93	36·4	47·5	11·1	41·9	24·2	55·3	31·1	7·6	4·00	21	38·7	92	35·3	43·2	7·9	39·3	27·2	53·3	26·1	8·3	2·17	17
Cromer	51·0	90	45·7	56·8	11·1	51·2	37·8	65·9	28·1	5·7	3·04	15	43·3	97	38·3	48·7	10·4	43·5	31·8	55·4	23·6	6·5	4·10	23	40·2	92	36·5	44·0	7·5	40·3	28·3	53·9	25·6	8·2	2·41	15
Somerleyton .	51·4	87	45·5	57·0	11·5	51·2	36·1	67·1	31·0	5·5	2·84	16	42·8	91	37·8	49·2	11·4	43·5	28·2	54·6	26·4	6·4	3·94	21	39·6	88	35·7	43·9	8·2	39·8	28·3	54·7	26·4	8·0	2·27	17
Lowestoft	51·8	85	46·1	56·1	10·0	51·1	37·0	66·5	29·5	6·2	2·49	19	43·2	90	38·0	48·8	10·8	43·4	31·0	56·7	25·7	7·4	3·50	21	39·8	89	35·6	44·5	8·9	40·1	29·2	53·6	24·4	8·1	2·10	17
Guernsey	53·5	84	49·2	58·5	9·3	54·1	42·1	62·8	20·7	7·1	3·02	15	49·2	80	45·2	54·2	9·0	49·8	38·3	57·9	19·6	7·4	5·89	23	45·1	84	40·7	49·6	8·9	45·1	34·1	57·0	22·9	8·1	3·11	19

Abstract of Meteorological Observations for the YEAR 1888.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather, No. of days of					Wind, No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.														
Alnwick	29·878	46·6	44·3	45·5	40·0	53·7	23·6	Mar. 10, 17	74·9	July 1	44·2	42·7	83	88	6·8	5·7	29·56	1·31	July 21	175	30	38	130	0	52	12	38	58	84	95	120	92	179
Cramlington	·881	46·7	44·4	45·6	39·0	52·8	21·0	,, 17	74·7	,, 1	44·3	....	82	....	6·7	5·9	27·29	1·23	June 25	202	33	21	102	11	68	71	32	50	64	141	150	146	8
Scaleby ...	·881	46·8	45·1	45·9	39·6	54·3	12·9	,, 9	74·8	June 4, 30	45·1	43·9	88	91	7·1	6·2	34·66	1·35	,, 25	195	14	37	136	48	44	56	81	55	35	229	86	34	110
Rounton	·900	46·8	45·0	45·9	39·5	52·9	12·1	,, 15	73·3	July 2	....	....	....	....	....	....	27·07	1·41	July 21	207	25	..	..	..	73	48	25	40	71	232	55	74	112
Scarborough	·902	48·4	46·8	47·6	42·8	52·9	23·0	,, 10	74·3	June 29	45·6	44·7	81	85	6·3	6·0	28·19	1·25	June 29	198	29	27	103	21	90	48	48	57	68	123	170	85	41
Wakefield ..	·922	48·1	46·7	47·4	41·3	54·6	14·1	,, 10	76·4	,, 29	45·2	44·5	80	83	....	....	31·97	1·30	,, 29	199	13	..	..	..	75	37	69	52	89	129	200	79	0
Buxton	....	46·0	43·1	44·6	37·8	52·1	5·0	,, 10	74·5	July 2	43·8	41·9	84	90	7·4	6·7	54·51	1·22	,, 25	183	49	16	141	0	8	40	77	62	46	155	159	150	33
Cheadle	·942	45·9	45·2	45·5	40·2	53·0	20·5	,, 10	74·1	,, 2	44·3	43·9	88	90	6·6	6·2	34·11	1·30	,, 25	199	34	43	126	35	61	40	105	61	84	105	100	131	43
Llandudno ..	·930	50·2	48·6	49·4	44·3	54·2	26·0	,, 24	70·0	June 29	47·2	46·3	80	83	6·7	6·6	26·27	1·06	Oct. 16	173	18	39	150	23	68	47	71	30	70	131	242	71	0
Leaton	....	48·0	45·7	46·8	39·5	54·8	13·6	,, 10	78·0	Aug. 13	46·0	....	86	...	....	....	25·65	·95	Nov. 6	184	16	..	..	..	..	..	..	..	..	..	..	..	..
Churchstoke	·959	47·7	45·3	46·5	39·7	54·5	11·2	,, 10	75·9	,, 13, 25	45·3	43·7	84	88	7·0	6·4	35·98	1·30	Feb. 1	187	32	15	120	13	34	52	38	87	71	150	151	123	24
Cheltenham	·957	48·8	46·9	47·8	40·6	55·7	16·5	,, 24	77·8	July 2	46·8	45·5	86	89	6·8	5·7	29·93	1·07	July 20	204	17	28	115	30	61	27	32	39	117	139	136	50	129
Carmarthen	·953	49·8	47·1	48·5	42·1	55·5	19·0	,, 10	74·2	Aug. 24	47·1	45·6	82	88	6·9	6·4	50·25	1·37	Oct. 15	235	10	34	144	11	86	14	92	31	73	96	120	32	186
Babbacombe	·993	50·6	47·8	49·2	43·5	56·1	23·3	,, 16, 24	75·9	,, 27	47·8	46·0	81	87	7·1	5·8	35·29	1·32	July 30	203	17	37	130	49	69	84	65	27	62	165	155	84	19
Downside ..	·972	47·7	46·3	47·0	41·5	54·1	18·1	,, 10	75·0	,, 25	45·7	44·9	86	89	6·9	6·1	47·55	2·06	June 10	208	18	34	135	36	60	108	19	37	58	226	128	89	5
Marlborough	·982	48·2	45·9	47·1	40·7	55·3	18·5	,, 24	78·3	June 29	45·9	44·5	84	89	7·2	6·0	32·40	1·13	Feb. 10	199	25	36	151	0	83	33	80	25	75	104	128	62	140
Strathfield T.	....	49·7	....	....	40·6	57·6	13·8	,, 24	81·7	July 2	47·0	....	82	....	6·7	....	24·46	·99	July 31	168	13	..	..	..	..	..	..	..	..	..	..	..	..
Norwood	·979	49·4	47·9	48·7	42·7	56·8	19·9	,, 24	83·6	June 29	46·3	45·6	80	84	6·8	5·7	21·44	·66	Feb. 8	180	22	47	135	17	81	44	55	33	102	99	172	55	89
Croydon	·979	49·3	47·6	48·4	42·4	56·4	20·9	,, 24	81·4	,, 29	46·0	45·3	79	83	7·1	5·4	24·14	·71	,, 10	173	25	48	133	20	43	64	37	39	79	161	135	37	135
Southbourne	·982	49·9	48·2	49·1	43·6	55·6	23·0	,, 10	77·0	Aug. 26	47·2	46·2	82	86	5·9	4·8	27·11	1·05	Sept. 21	171	2	78	97	19	97	67	19	56	59	114	107	122	89
Margate	·974	49·7	48·1	48·9	43·9	54·9	24·2	,, 24	80·6	June 30	47·1	46·3	82	87	6·8	5·3	22·27	1·26	May 26	176	16	49	117	4	47	69	60	43	86	173	93	50	109
Hillington ..	·943	48·9	45·8	47·3	40·5	55·7	13·6	,, 10	83·3	,, 30	46·8	44·7	85	91	7·7	7·0	35·06	2·34	Sept. 29	192	30	20	171	14	55	101	50	84	61	197	78	101	3
Lowestoft ..	·935	49·1	47·0	48·1	42·4	54·0	22·6	,, 24	77·0	,, 30 / Aug. 14	46·5	45·2	83	87	6·9	6·3	26·03	1·20	July 14	191	22	37	147	8	39	75	70	55	60	96	200	122	13
Dublin	·922	49·0	48·5	48·8	43·8	54·6	25·4	,, 24	71·4	Aug. 26	46·1	46·2	80	83	6·1	5·7	29·35	1·39	April 26	188	23	38	84	23	38	37	55	68	89	85	223	81	54
Killarney ..	29·934	49·8	47·9	48·9	41·9	55·5	18·8	,, 24	73·1	June 4	47·4	46·2	83	87	7·5	6·8	70·05	2·63	Jan. 28	242	14	19	163	53	50	26	47	37	51	117	130	97	175
Columns	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

Abstract of Climatological Observations for the YEAR 1888.

Station.	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Alnwick	46·6	83	40·0	53·7	13·7	46·9	23·6	74·9	51·3	6·8	29·56	175
Cramlington	46·7	82	39·0	52·8	13·8	45·9	21·0	74·7	53·7	6·7	27·29	202
Stapleton	46·3	86	38·7	52·0	13·3	45·3	19·5	75·4	55·9	..	43·88	227
Scaleby	46·8	88	39·6	54·3	14·7	47·0	12·9	74·8	61·9	7·1	34·66	195
Alston	43·9	85	35·8	50·4	14·6	43·1	4·8	72·0	67·2	7·4	52·29	241
Seathwaite	46·7	80	41·3	52·8	11·5	47·0	17·9	72·5	54·6	7·4	143·97	219
St. Michael's-on-Wyre	48·4	82	40·8	54·5	13·7	47·6	20·0	73·6	53·6	7·3	40·37	194
Blackpool	48·5	83	41·9	53·1	11·2	47·5	22·7	71·7	49·0	6·3	32·70	204
Bolton	46·6	85	40·6	52·9	12·3	46·8	19·6	73·8	54·2	7·5	52·29	217
Rounton	46·8	..	39·5	52·9	13·4	46·2	12·1	73·3	61·2	..	27·07	207
Scarborough	48·4	81	42·8	52·9	10·1	47·9	23·0	74·3	51·3	6·3	28·19	198
Wakefield	48·1	80	41·3	54·6	13·3	48·0	14·1	76·4	62·3	..	31·97	199
Hodsock	48·3	81	40·5	55·1	14·6	47·8	5·3	77·0	71·7	6·6	29·83	194
Strelley	47·3	84	40·2	54·4	14·2	47·3	15·2	76·8	61·6	6·6	31·94	205
Belper	46·9	86	41·0	53·8	12·8	47·4	16·7	75·0	58·3	4·7	34·43	182
Cheadle	45·9	88	40·2	53·0	12·8	46·6	20·5	74·1	53·6	6·6	34·11	199
Oakamoor	47·6	..	..	54·7	..	..	13·5	77·1	63·6	8·6	40·08	180
Buxton	46·0	84	37·8	52·1	14·3	45·0	5·0	74·5	69·5	7·4	54·51	183
Macclesfield	46·5	87	40·4	..	..	..	15·8	74·1	58·3	6·6	36·72	195
Chester	49·1	79	42·1	55·9	13·8	49·0	20·7	76·6	55·9	8·1	26·76	191
Leaton	48·0	86	39·5	54·8	15·3	47·2	13·6	78·0	64·4	..	25·65	184
Churchstoke	47·7	84	39·7	54·5	14·8	47·1	11·2	75·9	64·7	7·0	35·98	187
Kenilworth	47·9	84	40·9	54·7	13·8	47·8	16·4	77·4	61·0	6·9	30·35	200
Burghill	49·0	82	41·4	56·6	15·2	49·0	17·8	76·5	58·7	6·8	29·19	189
Ross	49·8	82	41·6	56·9	15·3	49·2	18·8	77·0	58·2	6·3	31·52	194
Cheltenham	48·8	86	40·6	55·7	15·1	48·2	16·5	77·8	61·3	6·8	29·93	204
Llandudno	50·2	80	44·3	54·2	9·9	49·3	26·0	70·0	44·0	6·7	26·27	173
Carmarthen	49·8	82	42·1	55·5	13·4	48·8	19·0	74·2	55·2	6·9	50·25	235
Cardiff	49·6	..	43·5	55·7	12·2	49·6	21·2	76·3	55·1	..	40·01	205
Weston-super-Mare	50·2	83	44·1	55·7	11·6	49·9	22·1	75·3	53·2	6·8	28·78	193
Ilfracombe	51·4	86	47·1	55·6	8·5	51·3	27·8	72·0	44·2	6·6	32·56	206
Bude	50·6	88	44·2	55·9	11·7	50·1	21·1	77·5	56·4	6·5	32·73	150
Helston	..	..	..	..	..	..	24·7	..	..	..	36·61	216
Falmouth	52·1	81	46·1	55·9	9·8	51·0	25·6	73·6	48·0	6·9	45·44	217
Maker	49·8	85	44·9	55·7	10·8	50·3	23·2	76·0	52·8	6·9	29·64	222
Ashburton	50·1	85	43·4	56·0	12·6	49·7	22·2	75·5	53·3	..	55·66	211
Bridgetown	50·7	82	41·9	57·8	15·9	49·8	17·9	77·8	59·9	6·9	45·58	220
Torquay, C. C.	50·7	..	44·3	55·5	11·2	49·9	23·9	75·2	51·3	6·8	33·01	181
Babbacombe	50·6	81	43·5	56·1	12·6	49·8	23·3	75·9	52·6	7·1	35·29	203
Teignmouth, B.	50·4	80	44·6	56·5	11·9	50·5	25·0	75·3	50·3	..	31·96	171
Teignmouth, W.	51·3	..	44·0	57·8	13·8	50·9	23·1	77·6	54·5	6·4	34·42	201
Sidmouth	50·0	84	43·7	55·2	11·5	49·5	22·7	75·4	52·7	7·5	31·08	230

ABSTRACT OF CLIMATOLOGICAL OBSERVATIONS FOR THE YEAR 1883.

Station.	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Brampford Speke	49·6	85	42·5	56·0	13·5	49·2	22·5	78·4	55·9	7·0	36·66	214
Cullompton	49·8	82	41·5	56·5	15·0	49·0	18·0	76·0	58·0	7·1	37·00	208
Stowell	..	..	..	..	..	..	20·4	75·0	54·6	6·9	34·11	235
Weymouth	50·8	..	45·1	55·6	10·5	50·4	23·7	73·8	50·1	5·8	23·31	156
Swanage	..	..	..	..	..	..	23·6	72·9	49·3	5·9	27·36	..
Southbourne on Sea ..	49·9	82	43·6	55·6	12·0	49·6	23·0	77·0	54·0	5·9	27·11	171
Southampton.....	49·7	83	41·2	56·8	15·6	49·0	20·4	79·0	58·6	7·0	30·48	226
Portsmouth	50·8	83	44·2	58·0	13·8	51·1	24·4	82·3	57·9	5·5	27·59	185
Ventnor	51·3	81	45·9	56·9	11·0	51·4	25·1	77·1	52·0	6·6	28·39	172
Worthing	50·7	81	43·9	55·9	12·0	49·9	23·3	75·7	52·4	5·7	26·05	174
Hastings	50·5	82	45·1	..	..	..	24·2	80·9	56·7	6·0	26·30	173
Ramsgate	50·0	..	43·6	55·4	11·8	49·5	24·8	81·2	56·4	6·5	23·11	171
Margate	49·7	82	43·9	54·9	11·0	49·4	24·2	80·6	56·4	6·8	22·27	176
Southend	50·4	..	43·8	56·4	12·6	50·1	23·0	81·9	58·9	6·8	19·18	149
Downside	47·7	86	41·5	54·1	12·6	47·8	18·1	75·0	56·9	6·9	47·55	208
Marlborough	48·2	84	40·7	55·3	14·6	48·0	18·5	78·3	59·8	7·2	32·40	199
Strathfield Turgiss ..	49·7	82	40·6	57·6	17·0	49·1	13·8	81·7	67·9	6·7	24·46	168
Harestock	48·5	82	41·2	55·3	14·1	48·3	19·2	78·1	58·9	6·9	29·95	174
Swarraton	48·1	..	40·5	55·2	14·7	47·9	13·1	78·7	65·6	6·8	31·10	157
Tunbridge Wells	48·3	..	41·6	54·6	13·0	48·1	20·7	81·1	60·4	6·7	29·17	171
Tunbridge	..	..	..	..	..	..	22·0	83·6	61·6	6·4	26·05	152
Beddington	49·3	80	41·2	56·5	15·3	48·8	19·1	82·8	63·7	6·7	22·48	151
Croydon	49·3	79	42·4	56·4	14·0	49·4	20·9	81·4	60·5	7·1	24·14	173
South Norwood	49·3	..	42·2	56·6	14·4	49·4	20·1	83·5	63·4	6·9	19·81	156
Norwood	49·4	80	42·7	56·8	14·1	49·8	19·9	83·6	63·7	6·8	21·44	180
Isleworth	50·0	81	42·0	57·3	15·3	49·7	21·2	83·4	62·2	6·9	22·63	183
London, Old Street ..	50·2	78	44·7	57·2	12·5	51·0	24·1	82·9	58·8	7·6	23·74	197
Regent's Park	49·2	80	42·8	57·0	14·2	49·9	20·0	83·0	63·0	..	23·96	169
Finchley	48·3	..	40·8	55·5	14·7	48·1	19·7	82·8	63·1	7·2	26·29	182
Watford	..	..	..	..	..	..	20·5	81·5	61·0	..	28·27	183
Throcking	47·5	..	40·8	54·8	14·0	47·8	17·5	80·0	62·5	6·8	25·95	167
Aspley Guise	49·1	82	41·1	55·5	14·4	48·3	18·4	80·4	62·0	7·0	25·80	179
Hillington	48·9	85	40·5	55·7	15·2	48·1	13·6	83·3	69·7	7·7	35·06	192
Cromer	49·2	..	42·0	54·3	12·3	48·1	19·8	81·3	61·5	6·5	31·20	175
Somerleyton	48·9	83	41·7	55·0	13·3	48·4	21·6	77·5	55·9	6·1	26·49	178
Lowestoft	49·1	83	42·4	54·0	11·6	48·2	22·6	77·0	54·4	6·9	26·03	191
Guernsey	..	..	..	..	..	..	29·1	79·7	50·6	..	34·34	..
Dublin	49·0	80	43·8	54·6	10·8	49·2	25·4	71·4	46·0	6·1	29·35	188
Killarney	49·8	83	41·9	55·5	13·6	48·7	18·8	73·1	54·3	7·5	70·05	242

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Buxton
Chester
Oakamoor
Belper
Boston
Cromer
Billington
Leaton
Somerleyton
Lowestoft
Charchstone
Aberystwith
Kenilworth
Burghill
Ross
Cheltenham
Throcking
Carmarthen
Watford
Southgate
Cardiff
Marlborough
Weston super Mare
Downside
Tunbridge
Tunbridge Wells
Ilfracombe
Swarraton
Harestock
Stowell
Southampton
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INTRODUCTION.

The Monthly and Yearly Abstracts of Observations made at the Second Order and Climatological Stations, and the Report on the Meteorology of England, were formerly printed as an Appendix to the *Quarterly Journal of the Royal Meteorological Society*. But as the number of Stations increased, more time was required for verifying and discussing the observations; the Council therefore decided not to delay the issue of the *Quarterly Journal*, but to publish the Reports on the Meteorology of England in a separate form under the title of *The Meteorological Record*, of which this is the fourth Volume.

The monthly Tables on pages 8, 10, 12, &c., give the results of the observations at the Second Order Stations, where the readings are taken *twice* daily, viz. at 9 a.m. and 9 p.m.

Column 1 is the mean of the readings of the Barometer at 9 a.m. and 9 p.m., corrected for temperature and reduced to sea-level.

Column 4 is the mean of the readings of the Dry-Bulb Thermometer at 9 a.m. and 9 p.m.

Columns 5 to 10. The Maximum and Minimum Thermometers are read and set at 9 p.m., and the readings entered to the day on which they are observed.

Columns 13 and 14. The Relative Humidity is calculated by dividing the mean elastic force of Aqueous Vapour, at the temperature of the Dew-Point, by that at the temperature of the Air (*i.e.* Dry-Bulb reading).

Columns 15 and 16. The Amount of Cloud is estimated according to the scale 0 to 10; 0 representing a Cloudless Sky, and 10 a completely covered or Overcast Sky.

Columns 17 to 20. The Rain is measured at 9 a.m., and the amount entered to the previous day. A fall of 0·006 inch and above constitutes a Day of Rain.

Column 21. When any Snow falls it is entered as a Day of Snow.

Columns 22 and 23. When the mean of the 9 a.m. and 9 p.m. observations of the Amount of Cloud is less than 2·0, this is called a Day of Clear Sky, but when the mean is above 8·0 it is called an Overcast Day.

Column 24. When the Force of the Wind is 7 and above (on the scale 0 to 12) this is counted as a Gale.

Columns 25 to 33 give the sums of the observations of the Direction of the Wind at 9 a.m. and 9 p.m.

The Tables on pages 9, 11, 13, &c., show in a graphic manner the Pheno-

mena observed at the Second Order Stations on each day of the month, and in which ● indicates Rain; ✱ Snow; ▲ Hail; ≡ Fog; ⊼ Thunderstorm; ⊤ Thunder; ≺ Lightning; ○ Solar Halo; ☬ Lunar Halo; and ☫ Aurora.

The Tables on pages 14, 15, 16, &c., contain the results of the observations at the Climatological Stations, where the readings are taken *once* daily, viz. at 9 a.m. At these Stations the Minimum Temperature is entered to the morning on which it is observed, while the Maximum Temperature and Rainfall are entered to the previous day.

In these Tables the Climatological results from the Second Order Stations are also included, but as the Maximum and Minimum Thermometers are read at 9 p.m. and not at 9 a.m., the names of the stations are printed in *italics*.

The first Table on pages 6, 22, 38, and 54, contains the Mean, Maximum, and Minimum Temperatures of the Soil, at depths varying from 8 inches to 4 feet below the surface.

The second Table on the same pages shows the total Duration of Bright Sunshine, together with the greatest amount on one day, and the number of days on which no sunshine was registered.

The Table on pages 7, 23, 39, and 55 gives the Maximum and Minimum Temperature and the Duration of Bright Sunshine for each day in the City of London, and at three stations in the Suburbs.

The following is a list of all the Stations, together with the county, the height above sea-level, and the name of the observer.

List of the Stations.

Station.	County.	Above Sea. Feet.	Observer.
Alston	Cumberland	1145	T. W. Dickinson.
Ashburton	Devon	584	F. Amery, J.P.
Aspley Guise, Woburn	Bedford	433	E. E. Dymond, J.P., F.R.Met.Soc.
Babbacombe	Devon	293	E. E. Glyde, F.R.Met Soc.
Beddington	Surrey	102	S. Rostron, F.R.Met.Soc.
Belper	Derby	344	J. Hunter, Jun., F.R.Met.Soc.
Bennington	Herts	407	Rev. J. D. Parker, LL.D., F.R.Met.Soc.
Blackpool	Lancashire	31	C. T. Ward, M.A., F.R.Met.Soc.
Bolton	Lancashire	500	Rev. T. Mackereth, F.R.A.S., F.R.Met.Soc.
Boston	Lincoln	20	G. E. Hackford.
Brampford Speke	Devon	140	W. H. Gamlen.
Bridgetown, Totnes	Devon	107	T. H. Edmonds.
Bude	Cornwall	16	J. Arthur.
Burghill, Hereford	Hereford	275	T. A. Chapman, M D.
Buxton	Derby	987	E. J. Sykes, M.B., F.R.A.S., F.R.Met.Soc.
Cardiff	Glamorgan	43	W. Adams, C.E., F.R.Met.Soc.
Carmarthen	Carmarthen	188	G. J. Hearder, M.D.
Cheadle (Tean)	Stafford	646	J. C. Philips, J.P.
Cheltenham	Gloucester	184	R. Tyrer, B.A., F.R.Met.Soc.
Chester	Cheshire	65	A. O. Walker, F.L.S.
Churchstoke	Montgomery	540	P. Wright, F.C.S , F.R.Met.Soc.
Cramlington	Northumberland	255	W. Bonallo, F.R.Met Soc.
Cromer	Norfolk	90	J. Cooper, F.R.C.S.
Croydon (Addiscombe)	Surrey	201	E. Mawley, F.R.Met.Soc.
Cullompton	Devon	202	T. Turner, J.P., F.R.Met.Soc
Dublin	Dublin	51	J. W. Moore, M.D., F.R.Met.Soc.
Falmouth	Cornwall	175	W. L. Fox, F.R.Met.Soc.

LIST OF THE STATIONS—*Continued.*

Station.	County.	Above Sea. Feet.	Observer.
Finchley	Middlesex	275	H. C. Stephens, F.C.S., F.R.Met.Soc.
Guernsey	Channel Isles	180	F. E. Carey, M.D., F.R.Met.Soc.
Harestock, Winchester	Hants	301	Lt. Col. H. S. Knight, F.R.Met.Soc.
Hastings	Sussex	110	A. H. Wood, F.R.Met.Soc.
Helston	Cornwall	185	J. Gill.
Hillington	Norfolk	88	Rev. H. E. B. Ffolkes, M.A., F.R.Met.Soc.
Hodsock, Worksop	Notts	56	H. Mellish, F.R.Met.Soc.
Ilfracombe	Devon	25	M. W. Tattam.
Isleworth	Middlesex	68	Miss E. A. Ormerod, F.R.Met.Soc.
Kenilworth	Warwick	320	S. Forrest, F.R.Met.Soc.
Killarney	Kerry	91	Rev. G. R. Wynne, M.A., F.R.Met.Soc.
Leaton, Shrewsbury	Salop	266	Rev. E. V. Pigott, M.A., F.R.Met.Soc.
Llandudno	Carnarvon	88	J. Nicol, M.D., J.P., F.R.Met.Soc.
London (Old Street)	Middlesex	69	Rev. A. P. Hockin.
Londonderry	Londonderry	93	J. Conroy, F.R.Met.Soc.
Lowestoft	Suffolk	85	S. H. Miller, F.R.A.S., F.R.Met.Soc.
Macclesfield	Cheshire	501	J. Dale, F.R.Met.Soc.
Maker, Devonport	Cornwall	290	Rev. P. H. Newnham, M.A., F.R.Met.Soc.
Margate	Kent	88	J. Stokes, F.R.Met.Soc.
Marlborough	Wilts	471	Rev. T. A. Preston, M.A., F.R.Met.Soc.
Newton Reigny	Cumberland	579	T. G. Benn, F.R.Met.Soc.
Norwood	Surrey	184	W. Marriott, F.R.Met.Soc.
Oakamoor	Stafford	350	G. Williams.
Portsmouth	Hants	20	R. E. Power, L.R.C.P.
Princetown, Dartmoor	Devon	1395	V. N. Bindley, M.D.
Ramsgate	Kent	90	M. Jackson, F.R.Met.Soc.
Regent's Park	Middlesex	125	W. Sowerby, F.L.S., F.R.Met.Soc.
Rounton	Yorkshire	242	I. L. Bell, F.R.S., F.R.Met.Soc.
Ross	Hereford	213	H. Southall, F.R.Met.Soc.
St. Michael's-on-Wyre	Lancashire	26	Rev. P. J. Hornby.
Scaleby	Cumberland	111	R. A. Allison, F.R.Met.Soc.
Scarborough	Yorkshire	130	A. Rowntree, F.R.Met.Soc.
Seathwaite	Cumberland	422	W. Dixon.
Sidmouth	Devon	186	W. T. Radford, M.D., F.R.Met.Soc.
Somerleyton	Suffolk	50	Rev. C. J. Steward, M.A., F.R.Met.Soc.
Southampton (Highfield)	Hants	136	Rev. H. Garrett, M.A., F.R.Met.Soc.
Southbourne-on-Sea	Hants	90	T. A. Compton, B.A., M.D., F.R.Met.Soc.
Southend	Essex	100	G. Lingwood.
South Kensington, I.H.E.	Middlesex	35	C. S. Wedenby.
South Norwood	Surrey	190	W. F. Stanley, F.G.S., F.R.Met.Soc.
Stapleton	Cumberland	400	A. W. Stirling, M.B., F.R.Met.Soc.
Stowell	Dorset	376	Rev. H. J. Poole, F.R.Met.Soc.
Strathfield Turgiss	Hants	195	Rev. C. H. Griffith, F.R.Met.Soc.
Strelley	Notts	396	T. L. K. Edge, F.R.Met.Soc.
Swanage	Dorset	178	B. Jumeaux, L.R.C.P., F.R.Met.Soc.
Swarraton, Alresford	Hants	310	Rev. W. L. W. Eyre, M.A., F.R.Met.Soc.
Teignmouth (Bitton)	Devon	70	W. C. Lake, M.D.
,, (Woodway)	Devon	235	G. W. Ormerod, M.A., F.G.S., F.R.Met.Soc.
Throcking, Buntingford	Herts	484	Rev. C. W. Harvey, M.A., F.R.Met.Soc.
Torquay	Devon	166	C. J. Harland.
Tunbridge	Kent	99	W. C. Punnett, F.R.Met.Soc.
Tunbridge Wells	Kent	500	F. Green, M.A., F.R.Met.Soc.
Ventnor	Isle of Wight	80	H. Sagar.
Wakefield	Yorkshire	96	H. Clarke, L.R.C.P., F.R.Met.Soc.
Watford	Herts	223	J. Hopkinson, F.L.S., F.R.Met.Soc.
Weston-super-Mare	Somerset	20	W. E. Perrett.
Weymouth	Dorset	79	T. B. Groves, F.C.S.
Worthing	Sussex	21	W. J. Harris, M.R.C.S., F.R.Met.Soc.

ERRATA.

Ashburton	January	1884	Rainfall, *for* 7·46 ins. *read* 7·49 ins.
Cardiff	August	,,	,, ,, 2·21 ins. ,, 2·57 ins.
,,	,,	,,	No. of rainy days, *for* 9 *read* 10,
Cromer	June	,,	Rainfall, *for* 68 in. *read* 78 in.
,,	,,	,,	No. of rainy days, *for* 7 *read* 8.
,,	August	,,	Rainfall, *for* 6·14 ins. *read* 5·78 ins.
Guernsey	January	,,	,, ,, 3·79 ins. ,, 3·68 ins.
Llandudno	May	1881	Wet Bulb, 9 a.m. for 50°·2 *read* 50°·5.
,,	,,	,,	Relative Humidity, *for* 72°/₀ *read* 74°/₀.
Scaleby	,,	1884	Rainfall, *for* 2·00 ins. *read* 2·02 ins.
,,	September	,,	,, ,, 3·80 ins. ,, 3·06 ins.
,,	,,	,,	No. of rainy days, *for* 19 *read* 17.
Stowell	June	,,	Rainfall, *for* 2·94 ins. *read* 3·94 ins.

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WEATHER OVER ENGLAND

FOR THE QUARTER ENDING MARCH 31ST, 1884.

THE weather throughout the whole of the quarter was exceedingly mild, the mean temperature for January was as much as 5° above the average. The most remarkable feature during the quarter was the very stormy weather that prevailed in January and February. Gales followed gales in rapid succession. The Storm on January 26th will long be remembered, not only for its violence and large area, but also for the unprecedentedly low reading of the barometer at its centre. (For a full account of this storm, see *Quarterly Journal of the Royal Meteorological Society*, Vol. X. p. 114.) The peculiar glows observed before sunrise and after sunset during November and December, were also visible during the greater part of this quarter, and a pinkish haze was seen round the sun almost every day.

AIR TEMPERATURE was much above the average.

In *January* the mean temperature (mean of maximum and minimum) was 43°·6, and varied from 47°·7 at Ilfracombe, 47°·2 at Falmouth, 46°·6 at Bude, 46°·2 at Torquay, 46°·0 at Teignmouth and Ventnor, and 45°·7 at Weston-super-Mare, to 38°·0 at Alston, 40°·1 at Buxton, 40°·4 at Stapleton, 41°·8 at Cramlington, 41°·4 at Throcking, 41°·7 at Rounton, and 41°·8 at Bolton and Cheadle. The weather throughout the month was very mild, damp and cloudy. The maximum temperatures occurred on the 4th, 10th, 23rd, and 30th. The highest readings were:—On the 4th, 57°·7 at Helston, 55°·9 at Bridgetown, and 55°·8 at Bude; on the 10th, 58°·8 at Ilfracombe, 57°·6 at Burghill, 55°·4 at Chester; on the 11th, 56°·6 at Wakefield; on the 23rd, 56°·8 at Cromer, 55°·7 at Sidmouth, and 55°·0 at Weston-super-Mare; and on the 30th, 56°·2 at Strathfield Turgiss, 56°·1 at Lowestoft and Somerley-

ton, and 55°·7 at London. The minimum temperatures took place generally between the 26th and 29th. The lowest readings were :—On the 1st, 28°·8 at Tunbridge Wells, and 29°·0 at Buxton ; on the 12th, 28°·4 at Cheltenham ; on the 26th, 28°·0 at Scaleby; on the 27th, 28°·8 at Cramlington, and 28°·9 at Cheadle ; on the 28th, 29°·0 at Buxton, and 29°·2 at Seathwaite; and on the 29th, 25°·7 at Alston. Owing to the cloudy state of the sky the mean daily range of temperature was only 8°·4.

In *February* the mean temperature was 42°·0, and varied from 45°·5 at Falmouth, 45°·3 at Ventnor, 44°·9 at Ilfracombe, 44°·6 at Weymouth, 44°·4 at Teignmouth, 44°·2 at Portsmouth, 44°·1 at Bridgetown and Maker, and 43°·9 at Torquay, to 36°·5 at Alston, 37°·9 at Buxton, 38°·9 at Stapleton, 39°·5 at Cramlington, 39°·6 at Bolton and Cheadle, and 40°·0 at Rounton and Strelley. The temperature was above the average throughout the month, and the weather was wet in the South-west, but rather dry in the other parts of the country. The maximum temperatures occurred generally on the 13th and 14th. The highest readings were :—On the 9th, 57°·0 at Llandudno; on the 13th, 56°·8 at Isleworth, 56°·7 at South Norwood and Regent's Park; on the 14th, 56°·2 at Bridgetown, 56°·0 at Ventnor, 55°·5 at Portsmouth; and on the 21st, 56°·9 at Aspley Guise. The minimum temperatures took place generally on the 3rd, but in the North on the 29th. The lowest readings were :—On the 3rd, 16°·9 at Alston, 22°·2 at Stapleton, 23°·9 at Churchstoke, and 25°·0 at Cullompton; and on the 29th, 19°·0 at Buxton, 21°·6 at Hodsock, 23°·6 at Wakefield, and 24°·8 at Cramlington. The mean daily range of temperature was 9°·4.

In *March* the mean temperature was 43°·9, and varied from 47°·1 at Ilfracombe, 46°·5 at Ventnor, 46°·3 at Falmouth, 46°·1 at Weston-super-Mare, 46°·0 at Teignmouth, and 45°·9 at London, to 38°·5 at Alston, 40°·1 at Buxton, 40°·8 at Stapleton, 41°·4 at Cramlington, 41°·5 at Bolton, 41°·6 at Rounton, and 41°·9 at Cheadle. The weather was cold from the 1st to the 3rd, and 25th to 30th, but very fine and warm from the 4th to the 24th. The maximum temperatures occurred generally on the 16th. The highest readings on this day were 69°·3 at Hillington, 68°·9 at Cromer, 68°·4 at Hodsock, 68°·3 at Regent's Park, 68°·1 at Isleworth and 67°·8 at Watford. The minimum temperatures took place mostly on the 1st and 3rd. The lowest readings were :—On the 1st, 24°·1 at Hodsock, 24°·7 at Buxton, 24°·9 at Hillington, and 25°·1 at Beddington ; on the 2nd, 22°·0 at Rounton, and 25°·6 at Cheltenham ; on the 3rd, 25°·2 at Tunbridge, 25°·3 at Somerleyton, and 25°·8 at Strathfield Turgiss ; and on the 11th, 18°·0 at Alston. The mean daily range of temperature was 12°·8.

Atmospheric Pressure was about the average.

In *January* the mean pressure (reduced to sea-level) was 30·03 ins. The highest readings were in the South-west and the lowest in the North ; the difference between the means at Cramlington in the North, and Babbacombe in the South, was 0·3 in. This was due to the passage of many severe and deep depressions which crossed the North of the British Isles during this month. The maximum occurred on the morning of the 16th, the highest

reading being 30·678 ins. at 9 a.m., at Churchstoke. The minimum took place during the passage of the great Storm on the evening of the 26th. The lowest reading reported at the Society's stations at 9 p.m. was 27·800 ins. at Scaleby. At the centre of this depression the pressure fell to 27·332 ins. at Ochtertyre, near Crieff, at 9.45 p.m.

In *February* the pressure was lower than in the previous month, the mean being 29·88 ins. The highest readings were in the South-east, and the lowest in the North-west. The maximum occurred generally on the morning of the 3rd, the highest reading being 30·559 ins. at 9.20 a.m. at Babbacombe. The minimum took place in the South on the 1st, and in the other districts on the 9th. The lowest readings were 29·131 ins. at 9 a.m. on the 1st at Carmarthen, and 28·932 ins. at 9 p.m. on the 9th at Cramlington.

In *March* the pressure was slightly above the average, the mean being 29·92 ins. The highest readings were in the South-east, and the lowest in the North-west. The maximum occurred in the South on the 5th, and in the North on the 27th, the highest readings being 30·324 ins. at 11.15 p.m. on the 5th at Babbacombe, and 30·299 ins. at 9 a.m. on the 27th at Cramlington. The minimum took place on the morning of the 10th, the lowest reading being 29·048 ins. at 9 a.m. at Cramlington.

Rainfall was below the average.

In *January* both the rainfall and number of rainy days were about the average. The monthly falls varied from 22·19 ins. at Seathwaite, 8·18 ins. at Alston, 7·46 ins. at Ashburton, 6·90 ins. at Carmarthen, 6·44 ins. at Bridgetown and 6·37 ins. at Buxton, to 1·46 in. at Somerleyton, 1·51 in. at Lowestoft, 1·59 in. at Cromer, 1·73 in. at Southend, 1·95 in. at Hillington, and 1·96 in. at Norwood. Rain fell generally from the 2nd to the 8th, 22nd, 23rd, and 25th to 31st. The greatest daily falls occurred in the North on the 22nd, and in the other districts between the 23rd and 26th. At Seathwaite falls exceeding 1 inch were measured on eleven occasions, the heaviest being 4·02 ins. on the 22nd. At the other stations falls of 1 inch were recorded as follows:—On the 22nd, 1·18 in. at Alston, 1·08 in. at Buxton, 1·03 in. at Stapleton and 1·01 in. at Carmarthen; on the 26th, 1·19 in. at Ashburton; and on the 31st, 1·00 in. at Ashburton. Thunderstorms occurred on the 25th, 26th, 27th and 30th. Snow fell on the 1st, 2nd, 11th, and 24th to 27th. Hail occurred on the 11th and 25th to 27th.

In *February* the rainfall was below the average, but the number of rainy days especially in the South-west were above the average. The monthly falls varied from 14·68 ins. at Seathwaite, 8·36 ins. at Ashburton, 6·06 ins. at Bridgetown, 5·79 ins. at Carmarthen, 5·22 ins. at Falmouth, and 5·10 ins. at Babbacombe, to 0·65 in. at Cromer, 0·66 in. at Hillington, 0·67 in. at Throcking, 0·82 in. at Aspley Guise, 0·88 in. at Lowestoft, 0·95 at Cramlington, and 0·99 in. at Southend. The greatest daily falls occurred on the 1st, 11th, and 17th. Falls of 1·25 in. and above were recorded as follows:—On the 1st, 1·68 in. at Belper; on the 9th, 2·03 ins. at Seathwaite; on the 12th, 1·97 in. at Seathwaite; on the 18th, 1·28 in. at Seathwaite; on the 17th, 1·85 in. at Cardiff, and 1·25 in. at Sidmouth; on the 20th, 1·86 in. at

Seathwaite; and on the 27th, 1·88 in. at Ashburton. Thunderstorms occurred on the 1st, 21st, and 22nd. Snow fell on the 1st to 3rd, 9th to 11th, 16th, 17th, 24th, 25th, 28th and 29th. Hail occurred on the 1st to 3rd, 9th to 11th, 21st to 26th, and 28th.

In *March* the rainfall was slightly above, while the number of rainy days were below those of the previous month. The monthly falls varied from 13·71 ins. at Seathwaite, 6·44 ins. at Carmarthen, 5·23 ins. at Ashburton, 4·52 ins. at Bridgetown, and 4·19 ins. at Falmouth, to 0·92 in. at Ramsgate, 0·97 in. at Lowestoft, 1·01 in. at Margate, 1·07 in. at Southend and Throcking, 1·16 in. at Aspley Guise, and 1·24 in. at Isleworth. Rain fell generally on the 2nd and 3rd, 8th to 10th and 31st. The greatest daily falls occurred in the South and South-west on the 3rd, and in the North on the 4th. Falls exceeding 1·30 in. were recorded as follows:—On the 3rd, 2·04 ins. at Ashburton, 1·88 in. at Bridgetown, 1·57 in. at Swanage, 1·40 in. at Teignmouth, 1·38 in. at Babbacombe, and 1·32 in. at Carmarthen; on the 4th, 1·39 in. at Seathwaite and 1·35 in. at Alston; on the 9th, 1·34 in. at Seathwaite; on the 13th, 1·43 in. at Seathwaite; on the 14th, 3·25 ins. at Seathwaite; and on the 31st, 1·36 in. at Seathwaite. Snow fell on the 1st to 3rd, 9th to 11th, 20th, 21st and 31st. Hail occurred on the 10th, 20th and 21st.

Wind.—In *January* the general direction of the wind was South-west. Gales or strong winds were of frequent occurrence, those on the 23rd and 26th being exceptionally violent.—In *February* the prevalent direction of the wind was South-west from the 3rd to 14th, East or South-east from the 15th to 19th, South-west or West from the 20th to 26th, and East from the 27th to 29th. Gales or strong winds occurred on several occasions.—In *March* the prevalent direction of the wind was North-east on the 1st and 2nd, variable from the 3rd to the 12th, South or South-west from the 13th to the 19th, North-west from the 20th to the 24th, East or North-east from the 25th to the 29th, and South-east on the 30th and 31st.

Fog was prevalent on *January* 1st to 5th, 8th to 9th, 12th to 21st, 28th, 29th and 31st; *February* 1st, 3rd, 5th to 9th, 14th, 19th to 21st, 23rd, and 26th to 29th; and *March* 1st to 8th, 11th to 13th, 15th to 17th, 19th, 23rd to 25th, and 28th to 31st.

Halos were observed on *January* 3rd to 5th, 7th, 9th, 10th and 14th; *February* 1st, 4th, 6th, 8th, 10th, 12th, 22nd and 25th; and *March* 1st, 3rd, 6th to 12th, 14th, 17th, 18th, 23rd to 25th, 30th, and 31st.

"Ball Lightning in South Wales." By William D. Taylor, Blaendyffryn, Llandyssil, Cardiganshire, South Wales.

On Monday morning, February 11th, during a heavy snowstorm a huge ball of fire nearly as large as a barrel fell within 20 yards of my residence, and when within a few feet of the ground exploded with terrific force. It wrecked every window on that side, mostly thick plate glass, and did considerable

damage. I was sitting with my family at breakfast, and at the moment looking out of the window, so saw everything perfectly. It appeared as though fire was raining from above all round.

Another fell 200 yards off, burying itself 8ft. into the ground and destroying my water supply.

Another fell at a farm a quarter of a mile off, destroying a building, stripping an immense tree from top to bottom, and throwing down four horses at work.

It was the most appalling sight a human being could witness, and I could only imagine the end of all things had arrived.

TEMPERATURE OF THE SOIL AT 9 A.M.

Station.	Depth below the Surface.	January.			February.			March.		
		Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.
		°	°	°	°	°	°	°	°	°
Aspley Guise	3 ins.	40·5	45·6	35·8	39·9	43·6	35·5	42·0	48·2	35·0
Babbacombe	6 ins.	44·0	47·7	39·8	43·9	45·9	40·7	45·8	50·9	42·0
Southampton	6 ,,	42·4	47·4	38·5	42·7	45·8	38·7	43·9	49·0	38·0
Marlborough	6 ,,	40·9	46·7	36·0	40·4	44·0	36·4	41·8	47·9	36·2
Croydon	6 ,,	41·1	46·6	36·0	40·8	45·4	36·3	42·2	48·6	35·0
Aspley Guise	6 ,,	40·8	45·0	36·6	40·4	43·9	36·3	42·5	47·9	35·9
Rounton	1 ft.	40·5	43·0	37·5	39·9	42·0	38·0	41·2	46·0	37·0
Hodsock	1 ,,	41·1	43·5	37·5	41·1	43·2	39·2	42·6	47·0	38·5
Strelley	1 ,,	41·1	43·2	37·8	40·5	42·2	38·4	41·7	46·1	38·2
Cardiff	1 ,,	44·1	46·6	41·5	43·3	45·1	41·7	43·7	46·5	41·0
Babbacombe	1 ,,	44·8	46·9	42·2	44·8	46·4	43·3	46·8	50·6	43·5
Cullompton	1 ,,	43·4	45·6	40·8	43·5	45·0	42·4	45·0	48·5	42·0
Southampton	1 ,,	43·4	45·9	40·9	43·9	45·8	42·2	45·1	49·2	41·1
Worthing	1 ,,	42·7	45·1	39·9	43·6	45·4	41·2	45·3	49·9	40·0
Marlborough	1 ,,	41·6	45·0	38·2	41·5	44·0	39·3	43·1	47·5	38·9
Harestock	1 ,,	42·4	45·1	39·1	42·2	45·2	39·7	42·3	46·5	38·3
Croydon	1 ,,	41·7	45·7	38·0	41·8	45·0	38·2	43·2	48·5	37·0
Norwood	1 ,,	41·3	44·9	38·1	41·4	44·2	38·4	42·7	47·8	37·1
Isleworth	1 ,,	41·6	45·1	38·3	41·8	45·0	38·9	43·2	48·2	37·7
Regent's Park	1 ,,	41·5	45·8	38·2	41·3	45·0	37·8	42·2	46·5	37·0
Aspley Guise	1 ,,	40·7	44·1	37·4	40·7	43·8	37·0	42·6	47·2	36·8
Lowestoft	1 ,,	41·0	44·0	38·0	41·3	43·5	38·8	43·1	47·6	37·8
Marlborough	1½ ft.	42·3	44·3	40·0	42·2	43·4	41·0	43·8	47·0	40·5
Marlborough	2 ft.	43·1	44·1	42·0	42·9	43·4	42·2	44·0	46·1	41·7
Harestock	2 ,,	43·3	44·4	41·9	43·2	44·2	42·4	43·1	45·4	41·0
Isleworth	2 ,,	43·1	44·7	41·3	43·0	44·3	41·5	44·0	47·2	40·4
Aspley Guise	2 ,,	41·9	43·8	39·8	42·3	43·3	40·6	43·8	47·2	40·2
Lowestoft	2 ,,	41·3	43·0	39·0	41·4	43·0	39·7	42·9	46·8	38·7
Cardiff	4 ft.	46·7	47·0	46·2	45·9	46·3	45·5	45·4	46·0	45·0
Harestock	4 ,,	45·0	45·2	44·8	44·7	44·9	44·5	44·3	45·1	43·7
Regent's Park	4 ,,	43·4	43·8	42·5	43·0	43·2	42·5	43·0	44·5	41·8
Aspley Guise	4 ,,	43·7	44·0	43·0	43·5	43·9	43·1	44·0	45·6	42·3
Lowestoft	4 ,,	43·5	44·0	42·9	43·3	43·9	42·7	43·7	45·2	42·0

DURATION OF BRIGHT SUNSHINE.

Station.	Total amount.			Greatest amount on one day.			No. of days on which no Sunshine was registered.		
	Jan.	Feb.	Mar.	Jan.	Feb.	Mar.	Jan.	Feb.	Mar.
	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.			
Blackpool	10	48	68	2·3	7·0	8·5	22	13	10
Hodsock	23	58	92	4·7	6·7	9·2	16	7	6
Strelley	21	49	86	4·0	7·1	9·0	15	10	10
Buxton	22	45	73	7·0	5·0	8·5	18	8	8
Churchstoke	24	46	..	5·8	7·0	9·9	16	11	8
Llandudno	..	..	70	..	..	8·4	..	..	8
Cullompton	15	42	98	3·9	7·4	8·5	24	11	4
Southbourne	35	59	111	5·7	6·6	8·0	21	10	6
St. Leonard's	47	90	130	7·1	8·2	8·7	17	5	6
Marlborough	27	56	86	5·7	6·5	8·0	17	11	9
Harestock	31	55	100	6·9	6·3	9·1	19	7	7
Croydon	24	57	97	5·5	6·7	8·7	21	5	6
Kew	29	54	108	6·6	6·8	9·1	19	10	8
Greenwich	17	46	86	5·3	7·1	8·8	22	7	6
London, Bunhill Row	10	24	50	5·1	4·5	6·0	28	10	9
Aspley Guise	29	60	97	6·7	8·1	9·0	19	9	9
Hillington	19	72	98	4·0	7·8	8·3	22	9	6

Date.	JANUARY.											FEBRUARY.											MARCH.										
	Max. Temp.				Min. Temp.				Sunshine.			Max. Temp.				Min. Temp.				Sunshine.			Max. Temp.				Min. Temp.				Sunshine.		
	Old Street.	Regent's Park.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Bunhill Row.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Bunhill Row.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Bunhill Row.	Greenwich.	Kew.
	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.
1	39·1	38·5	35·3	36·5	32·5	31·9	31·2	32·1	..	..	..	50·4	50·3	50·0	51·1	46·2	45·5	43·3	44·3	..	1·2	1·7	41·4	40·8	42·4	39·9	30·5	29·6	27·7	27·8	1·3	4·4	5·7
2	48·6	48·5	43·4	43·2	33·3	32·2	32·7	36·6	..	..	..	42·4	42·4	43·9	46·3	40·0	38·6	33·7	34·5	..	..	0·8	44·2	44·2	45·7	43·4	33·2	33·2	28·6	33·6	1·6	3·2	6·1
3	51·4	50·3	50·1	49·8	38·2	38·4	41·9	42·3	..	..	..	45·9	45·0	41·7	41·9	30·8	28·7	27·8	29·8	..	..	..	46·4	45·2	43·8	44·7	32·5	28·7	27·3	28·0	..	..	..
4	51·4	49·8	50·1	49·2	42·0	46·8	44·2	44·8	..	..	..	50·5	50·3	50·1	50·0	31·9	31·0	41·7	41·9	..	0·7	1·5	53·2	53·8	52·0	51·6	38·0	38·5	41·3	43·5	..	..	..
5	51·4	50·3	49·8	49·4	47·2	45·8	44·0	44·2	..	..	..	48·9	48·3	48·3	48·4	44·5	43·6	43·2	44·1	..	..	..	51·6	52·8	50·5	50·3	39·0	38·1	36·6	37·6	4·2	4·7	7·4
6	51·9	51·5	51·3	51·3	46·0	45·1	44·8	44·0	..	0·3	1·5	46·7	46·4	46·4	46·6	43·0	41·6	35·4	39·3	..	..	..	51·4	50·3	50·4	51·3	37·0	32·7	33·6	31·4	0·2	2·8	5·0
7	47·4	46·8	46·4	46·7	44·4	43·2	40·0	40·6	..	0·3	1·4	44·4	45·2	44·8	43·9	36·2	35·7	32·7	34·5	..	0·2	..	50·4	52·1	54·1	49·8	38·0	32·7	32·1	30·8	..	3·2	1·9
8	49·4	47·9	47·0	46·9	37·8	36·7	36·3	37·2	..	..	..	48·8	46·4	45·7	45·8	38·0	37·1	37·1	38·1	..	..	..	49·2	50·1	50·4	49·7	39·5	35·0	34·6	34·0	..	..	..
9	52·3	51·8	50·9	51·2	41·2	39·6	43·7	42·6	..	..	..	52·5	52·3	51·4	51·2	39·0	42·1	43·9	44·8	0·5	..	..	50·4	51·3	51·0	49·9	40·3	39·6	38·6	38·8	2·5	3·7	7·6
10	52·1	51·3	52·0	51·0	45·2	44·6	42·7	42·4	..	..	0·1	47·9	45·0	50·2	51·4	43·0	41·8	37·0	39·1	2·2	2·5	4·0	49·4	50·5	51·5	49·5	41·0	40·1	37·2	38·6	2·4	4·3	5·2
11	48·8	46·9	47·8	47·0	44·0	42·6	37·4	38·2	..	2·1	3·7	47·3	46·0	47·5	45·5	38·5	37·6	36·1	36·7	1·2	2·0	2·1	45·4	46·4	44·6	45·6	37·5	36·9	36·1	38·0	..	..	..
12	44·2	43·2	42·7	43·1	36·5	34·7	34·8	34·9	..	0·3	4·9	49·7	47·2	50·2	48·9	39·5	39·5	37·2	38·6	0·3	1·8	1·1	51·3	53·1	53·7	51·8	39·2	38·8	36·5	39·6	1·0	2·8	2·4
13	46·4	45·4	44·7	45·1	37·5	35·9	34·5	35·5	..	..	..	56·6	56·7	57·6	54·8	45·5	44·8	43·7	44·8	3·0	6·0	6·1	55·1	56·8	56·6	54·6	44·0	43·4	42·3	41·9	0·3	1·4	1·5
14	50·6	49·3	50·0	49·1	42·0	40·5	39·8	40·0	..	..	0·2	52·4	52·3	53·0	54·6	47·7	46·8	43·4	45·9	0·2	0·3	1·8	59·3	60·7	60·5	59·1	48·2	46·8	46·1	46·5	1·1	2·1	1·7
15	51·0	50·8	49·8	50·1	43·1	41·6	41·7	40·6	..	..	..	43·5	41·0	43·4	47·4	40·5	40·1	33·8	36·4	0·2	1·3	1·3	66·7	68·1	68·0	66·1	50·0	48·2	46·6	45·9	6·0	7·4	8·3
16	42·4	40·9	44·0	43·9	37·5	36·7	36·7	38·1	..	..	..	41·8	39·4	40·7	40·9	35·0	34·9	32·5	33·8	0·9	3·3	3·4	67·1	68·3	68·8	65·0	46·0	45·6	41·6	44·5	5·1	8·8	9·1
17	44·9	44·4	42·5	42·8	38·0	37·2	37·8	39·8	..	..	..	43·4	42·6	42·9	44·4	36·2	35·7	35·2	35·8	0·1	0·4	0·5	65·9	67·2	68·1	63·9	43·5	40·6	39·2	38·5	2·6	5·6	5·0
18	47·2	46·2	45·0	46·0	40·5	35·2	39·6	40·2	..	..	..	43·5	40·5	42·8	43·6	34·0	33·7	31·6	33·5	4·4	7·1	6·8	63·9	64·7	64·7	61·5	48·6	46·5	47·3	44·3	0·8	5·0	5·0
19	47·9	46·4	47·0	46·1	42·5	40·5	37·7	38·2	..	..	..	49·9	48·3	49·6	48·5	35·5	33·7	35·2	36·3	..	0·1	..	55·9	58·7	59·3	56·5	46·5	44·4	42·4	43·6	1·3	2·1	3·3
20	50·4	50·3	49·4	50·2	40·0	39·6	39·0	40·1	..	2·2	1·9	52·4	50·8	53·1	51·6	41·7	39·7	44·9	45·0	4·5	6·0	5·7	52·9	54·3	53·5	50·7	43·1	42·1	40·0	41·1	5·7	7·1	8·6
21	51·3	50·3	51·5	50·4	42·8	42·6	42·0	42·2	..	..	0·2	51·4	50·8	53·0	51·6	44·8	43·6	42·7	44·0	2·3	2·7	4·4	52·6	55·3	52·4	49·8	38·8	37·7	37·5	39·3	4·6	4·2	4·9
22	53·1	51·8	51·5	51·9	46·2	45·6	45·7	46·1	..	..	..	52·2	49·8	52·1	51·4	44·5	43·6	40·3	42·2	0·2	0·3	..	52·4	54·8	53·9	51·7	36·5	34·2	31·9	33·5	0·4	1·6	1·3
23	49·9	53·3	53·8	54·2	49·2	49·2	42·5	43·1	..	..	..	50·9	48·5	51·8	51·6	41·4	40·1	38·4	38·9	1·2	3·2	3·7	53·0	54·5	53·9	50·6	41·0	39·6	40·0	40·1	2·4	2·4	6·3
24	44·4	43·2	43·5	43·4	38·5	37·7	36·7	37·1	2·6	3·2	6·0	48·5	47·8	48·0	47·3	43·5	43·2	36·8	38·9	0·4	1·2	1·8	51·9	54·1	52·2	49·8	39·0	36·7	35·0	36·1	5·3	4·7	8·8
25	47·9	47·8	47·1	46·8	39·2	38·0	37·7	38·0	..	..	..	48·6	48·5	48·2	48·1	37·2	35·2	34·0	34·7	1·0	0·9	1·1	47·4	48·3	47·2	45·6	36·0	34·9	34·5	32·9	0·5	1·6	0·2
26	50·7	48·3	48·9	49·4	39·1	38·1	37·7	38·5	..	..	..	48·2	46·4	48·0	47·2	38·4	35·2	32·5	35·2	1·4	3·4	6·0	44·9	45·4	44·4	43·2	38·8	38·1	36·7	38·3	..	0·1	..
27	40·7	38·2	40·0	40·0	35·8	35·5	32·6	33·7	2·5	2·5	2·7	45·2	44·4	45·5	44·8	33·3	32·7	30·6	30·4	0·1	0·4	..	42·3	42·6	42·0	41·2	38·2	37·7	37·3	38·0	..	..	..
28	46·9	44·5	43 8	43·9	34·5	35·1	33·9	35·0	5·1	5·3	6·6	39·6	38·9	39·6	40·0	34·2	34·2	31·2	31·8	..	..	..	43·9	43·9	43·2	41·5	37·1	36·5	35·9	36·7	..	..	..
29	55·1	55·1	55·3	53·8	37·5	37·2	38·0	38·1	..	0·4	0·2	42·9	40·4	43·4	40·8	32·8	31·7	30·0	31·7	0·1	1·3	0·4	47·2	47·8	47·1	45·5	39·5	39·1	36·5	38·1	0·1	0·5	..
30	55·7	55·3	55·2	54·1	46·2	44·5	44·8	44·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	50·2	53·1	52·8	51·1	38·2	37·7	37·0	36·8	..	1·8	2·5
31	52·4	51·3	51·0	50·5	45·8	44·4	43·7	43·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	53·4	55·8	54·6	53·7	42·0	42·8	41·8	42·8	0·5	0·3	0·2
Means	48·9	48·0	47·8	47·6	40·8	39·9	39·2	39·8	•0·3	0·5	0·9	47·8	46·7	47·7	47·6	39·2	38·3	36·8	38·1	0·8	1·6	1·9	51·9	53·1	52·7	50·9	40·0	38·5	37·4	38·1	1·6	2·8	3·5

NOTE.—At Old Street and Regent's Park the thermometers are read at 9 a.m., the maximum temperature being entered to the previous day; while at Greenwich the thermometers are read at 9 p.m., and at Kew at 10 p.m., the temperature being entered to the civil day. At Old Street and Regent's Park the thermometers are mounted in Stevenson screens; at Greenwich on a Glaisher stand; and at Kew in the thermograph screen.

• Between January 22nd and 28th the sunshine instrument was not in good order, and the amounts given are those recorded at Victoria Street, Westminster.

Abstract of Meteorological Observations for the Month of JANUARY, 1884.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of				Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.										Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.		Amnt.	Date.													
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.														
Cramlington	29·853	40·9	41·0	40·9	36·4	46·1	28·8	27	52·8	9	39·3	39·3	87	86	7·2	6·2	3·28	·60	3	18	7	1	11	2	1	0	3	6	3	12	23	14	0
Scalesby	·871	41·4	41·9	41·7	37·9	46·5	28·0	26	54·0	22	40·6	40·7	93	90	8·5	7·5	5·03	·85	3	26	3	1	18	13	1	2	6	2	1	32	10	4	4
Rounton	·906	41·1	42·1	41·6	37·2	46·2	29·9	27	53·3	22, 23	39·8	40·5	90	87	7·4	5·9	3·44	·69	3	17	5	1	11	7	2	1	1	5	9	22	9	8	5
Scarborough	·911	42·6	43·3	43·0	38·6	47·2	29·5	31	53·8	22, 23	40·8	41·6	86	87	7·0	4·9	2·99	·56	23	17	1	3	8	1	1	0	1	4	3	16	18	19	0
Wakefield	29·959	43·0	43·6	43·3	39·6	47·9	32·3	28	56·6	11	41·7	42·0	90	87	8·4	6·5	3·66	·76	23	18	3	0	13	4	1	1	2	6	10	16	25	1	0
Buxton	30·000	40·0	39·8	39·9	35·6	44·5	29·0	1, 28	50·1	29	38·9	38·6	91	90	8·5	7·1	7·35	1·08	22	21	6	0	17	0	0	0	0	6	4	15	16	16	5
Cheadle	30·013	40·6	41·4	41·0	37·2	46·3	28·9	27	52·1	23	39·7	40·5	92	92	7·8	6·9	2·98	·45	23, 31	19	6	1	16	4	2	0	5	5	3	20	14	10	3
Llandudno	29·973	45·1	45·2	45·2	41·1	48·8	32·2	2	54·0	5	43·2	43·1	85	84	8·1	6·2	4·52	·88	22	19	4	2	16	4	0	0	1	3	2	19	35	2	0
Leaton	....	43·2	43·0	43·1	38·5	47·7	30·5	27	53·8	29	..	..	..	..	..	..	3·22	·49	23, 26	16	2	..	..	..	..	..	..	..	..	..	..	..	..	..
Churchstoke	30·052	42·9	42·4	42·7	37·8	47·5	30·5	1	54·0	29	41·4	40·9	88	88	9·0	7·0	4·01	·76	26	19	5	0	18	3	0	0	5	6	2	15	25	7	2
Cheltenham	....	44·1	..	..	39·9	48·3	28·4	12	53·8	23	42·9	..	91	..	7·9	..	2·74	·55	26	17	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Carmarthen	·072	45·6	44·4	45·0	40·9	48·5	31·5	27	53·2	23	44·3	43·0	90	89	8·6	8·0	6·90	1·01	22	21	1	1	20	3	3	0	4	1	5	19	18	2	10
Babbacombe	·152	44·9	44·3	44·6	41·4	48·9	32·8	27	53·0	6	43·6	43·1	90	90	8·4	7·4	4·87	·80	26	17	1	1	17	7	1	2	2	5	6	23	15	6	2
Southbourne	·141	44·4	44·7	44·6	41·2	48·5	32·5	1	55·7	26	43·4	43·4	92	90	7·1	6·5	2·92	·69	26	19	0	3	14	3	2	3	0	3	4	22	12	9	7
Margate	·111	42·6	43·1	42·9	39·0	47·3	31·2	1	54·6	29	41·3	41·9	89	91	7·6	6·3	2·03	·70	26	16	0	2	14	2	0	1	1	3	5	30	14	2	6
Marlborough	·115	42·0	42·4	42·2	38·4	46·9	30·0	1	52·9	30	40·8	41·2	90	90	8·2	7·5	3·57	·53	31	18	3	3	21	..	0	1	2	2	7	19	20	5	6
Strathfield T.	·123	43·6	43·8	43·7	39·4	48·8	30·7	1	56·2	30	42·2	42·4	89	89	8·4	7·2	3·03	·84	26	19	1	1	19	1	0	0	3	1	3	23	18	13	1
Norwood	·115	43·0	43·7	43·4	39·4	48·1	31·4	1	55·0	30	41·6	42·3	89	89	7·8	7·4	1·96	·65	26	18	2	4	19	3	1	0	3	0	8	11	28	7	4
Croydon	·120	43·0	43·7	43·4	39·4	48·1	31·0	1	54·9	29	41·5	42·1	88	87	7·8	7·0	2·58	·86	26	16	3	4	16	3	0	1	2	1	6	28	19	2	3
Hillington	·024	40·7	41·7	41·2	37·3	46·6	29·5	18	54·8	31	39·8	40·9	93	93	8·2	6·6	1·95	·32	26	17	2	3	16	3	0	0	0	0	8	0	33	13	8	0
Lowestoft	30·028	41·3	42·3	41·8	37·6	46·7	32·5	1	56·1	30	40·0	40·9	89	89	7·1	5·8	1·51	·28	26	14	0	5	14	3	0	0	2	3	4	8	29	16	0
Londonderry	29·876	42·5	42·9	42·7	38·2	48·4	29·5	27	54·1	5, 21	41·1	41·3	89	87	7·8	7·2	6·46	·80	26	28	5	0	16	3	2	0	0	5	10	29	11	4	1
Dublin	29·969	45·1	45·3	45·2	41·2	49·2	31·2	27	55·8	29	43·1	42·9	85	82	7·8	7·0	2·36	·38	22	18	3	1	14	7	0	0	1	7	7	14	30	3	0
Killarney	30·005	46·8	46·4	46·6	41·6	50·5	32·2	26	58·9	22	45·1	44·3	87	84	7·9	8·1	8·66	1·26	25	26	3	0	14	10	0	1	1	4	9	15	19	5	8
Columns	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

Phenomena observed at the Stations during JANUARY, 1884.

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Cramlington	●	●✳	●	●≡	●≡	..	●	●	..	●	✳▲	..	..	☋	..	..	●	..	..	..	●	●	●	✳	●✳	●✳▲≮	✳	..	●≡	●✳	●≡
Scaleby	..	●	●	●	●	●	●	●	●	●	●✳	..	●	..	..	●	●	..	●	●	●	●	●	●	●	●✳≮	●✳	●	●	●⊼	●
Rounton	●	✳	●	●	●	..	●	●	..	●	✳	..	..	..	..	..	..	..	..	..	..	●	●	●✳	●✳	●	✳	..	●	●	●
Scarborough	●	●	●	●≡	●	..	..	●	●	●	..	..	..	☋	..	..	..	..	..	..	..	●	●	●	●	●⊼	✳	..	●	●	●
Wakefield ..	●	●	●	●≡	●	●	..	..	..	●☋	●✳▲	..	..	..	..	..	..	..	..	..	..	●	●	●✳	●	●✳	●≮	●	●	●	●
Buxton	✳	●✳≡	●	●	●	●	●	●	..	..	✳▲	●	●	●	●	..	..	..	●	..	..	●	●	●✳	●✳	●✳≮	≮	..	●	..	●
Cheadle	✳	●≡	●≡	●≡	●	●	●	●	..	..	●✳	..	..	●	..	≡	..	..	..	..	..	●	●	●✳▲	●✳	●✳⊼	✳	●	●≡	●	●
Llandudno ..	✳	●	●	●	●	●	●	●	..	●	..	..	..	..	..	≡	..	..	●	≮	●	●	●▲	●	●✳▲	●✳▲	✳	●	●	●	●
Leaton	..	●	●	..	●	●	●	..	..	..	..	..	●	..	..	..	..	..	..	..	..	●	●	●	●	●✳	✳	●	●≡	●	●
Churchstoke	✳	●≡	●	●	●	●	●☋	..	..	●	●✳	..	●	..	..	≡	..	..	..	..	..	●	●▲	●	●	●✳⊼	✳▲	●✳	●	●	●
Cheltenham	✳	●	●	..	●	●	●	●	..	..	●	..	..	..	..	..	..	..	..	..	..	●	●	●	●▲⊼	●≮	≮	●	●	●	●
Carmarthen	..	●	●	●	●	●	●	●	..	..	●▲	..	●	..	..	..	..	..	..	●	●	●	●	●	●	●✳▲	●▲	●	●	●	●
Babbacombe	●▲	●≡	●≡	●	●○	●	●	●	○	☋	..	..	..	..	..	..	..	..	..	..	..	●	●	..	●▲	●▲⊼	●✳▲≮	●▲	●	●	●
Southbourne	..	●	●	●	●	●	●	●	●	..	●	..	..	..	..	..	..	..	..	●	..	●	●	..	●⊼	●≮	●	●	●	●	●
Margate	●	●	●≡	●≡☋	●≡	..	●	●	..	..	..	..	●	..	≡	≡	≡	≡	..	..	..	●	●	..	●⊼	●≮	≮	●	●	●	●
Marlborough	●✳	●≡	●≡	●≡	●	●	●	●≡	..	..	●▲	..	..	..	..	≡	≡	≡	≡	..	..	●	●≡	..	●✳▲	●≮	✳▲	●	●	●	●
Strathfield T.	●	●≡	●	●	●	..	●	●	..	●	●▲	..	..	..	..	≡	..	..	..	●	..	●	●	..	●⊼	●▲ᴛ≮	●✳	●≡	●	●	●
Norwood	●✳≡	●≡	●	≡	●≡	..	●	●≡	..	☋	●	≡	≡	≡	≡	●≡	≡	≡	≡	●≡	..	●	●	..	●≮	●≮	✳≮	●	●	●	●
Croydon	✳	●≡	●≡☋	≡	●	..	●	●≡	≡	☋	●▲	≡	≡	≡	≡	●≡	≡	≡	≡	≡	≡	●	●✳	..	●⊼	●⊼	✳≮	●	..	●	●
Hillington ..	..	●	●	●	●	..	●	●	..	..	●✳	..	●	●	..	≡	≡	≡	..	..	..	●	●	..	●	●≮	✳	..	●	●	●
Lowestoft ..	..	●	●	●≡	●	..	..	●	..	..	..	..	..	●	..	..	●	≡	..	..	..	●	●	..	●	●▲⊼	..	..	●	●	●
Londonderry	●	●	●	●	●	●	●	●	●	●	●	●	●	●	..	..	..	●	●	●≮	●	●	●	●✳	●✳▲⊼	●✳▲	✳	●✳	●	●▲⊼	●
Dublin	●▲	●	●≡	●	●	●	●	..	..	●☋	..	..	..	..	..	..	..	..	..	≮	..	●	●	●	●✳≮	●✳	✳	●	●○	●▲○	●
Killarney ..	●≡	●≡	●≡	●	●	●	●▲☋	●	●	●	●	..	●	≡	..	..	..	●	●≡	●	●	●	●	●	●✳⊼	●ᴛ	●✳▲≮	●✳▲	●	●	●

Explanation of the Symbols.—● indicates rain; ✳ snow; ▲ hail; ≡ fog; ⊼ thunderstorm; ᴛ thunder; ≮ lightning; ○ solar halo; ☋ lunar halo; ⩛ aurora.

Abstract of Meteorological Observations for the Month of FEBRUARY, 1884.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature. 9 a.m.	9 p.m.	Mean.	Means of Min.	Means of Max.	Absolute Min. and Max. Min.	Date.	Max.	Date.	Wet Bulb Therm. 9 a.m.	9 p.m.	Relative Humid. 9 a.m.	9 p.m.	Amount of Cloud. 9 a.m.	9 p.m.	Rainfall. Total Fall.	Greatest Fall in 24 hours. Amnt.	Date.	Weather. No. of days of Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	Wind. No. of Observations of N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.															
Cramlington..	29·816	39·6	38·3	39·0	34·0	45·0	24·8	29	51·8	6	38·3	37·1	89	90	7·9	5·8	·95	·11	1	18	7	1	13	2	5	6	0	10	4	19	10	4	0
Scaleby	·793	40·0	39·8	39·9	35·4	45·6	26·5	2, 3	51·8	13	39·3	39·1	94	94	8·3	5·5	1·71	·26	11	18	3	2	13	6	2	7	12	2	4	24	0	1	6
Rounton	·835	39·9	39·2	39·6	35·0	44·9	27·0	3	50·8	13	38·5	38·0	89	90	7·3	7·7	1·11	·16	1, 9, 11	15	5	2	13	6	4	1	1	13	20	10	2	1	6
Scarborough..	·866	41·4	41·0	41·2	37·5	45·4	30·0	3	53·0	4	39·5	39·3	85	86	6·9	5·7	1·75	·85	1	17	4	1	8	2	3	2	2	13	8	17	10	3	0
Wakefield	·862	41·1	40·8	41·0	36·7	46·3	23·6	29	53·6	13	39·6	39·3	88	88	8·0	6·9	2·22	1·00	1	16	1	2	16	2	3	1	17	11	6	9	10	1	0
Buxton	·874	37·9	37·3	37·6	32·7	43·2	19·0	29	51·0	14	36·6	36·0	89	88	7·2	6·8	3·19	·80	1	17	8	0	10	0	1	3	5	12	8	17	10	2	0
Cheadle	·872	38·0	38·7	38·4	34·7	44·6	26·2	29	50·8	14	37·0	37·6	91	91	7·2	6·6	2·06	·71	1	18	6	0	9	1	1	2	17	3	13	9	6	5	2
Llandudno ..	·800	43·1	42·2	42·6	38·2	46·9	32·2	29	57·0	9	40·7	40·3	82	85	8·2	6·7	2·98	·47	1	19	1	2	14	4	3	2	2	17	8	12	12	2	0
Leaton	·861	40·5	40·1	40·3	35·5	46·1	27·2	29	51·8	9	39·2	39·0	89	91	7·3	6·4	2·14	·47	1	20	2	2	13	..	2	1	9	8	9	3	21	3	2
Churchstoke..	·856	39·7	39·5	39·6	35·1	45·3	23·9	3	52·5	14	38·0	37·9	86	87	7·6	6·9	4·08	·74	1	18	8	1	13	0	2	1	8	14	11	9	9	4	0
Cheltenham ..	·878	41·8	40·9	41·4	36·3	46·9	25·2	3	52·6	9	40·4	39·9	89	91	7·4	5·4	1·66	·43	9	17	3	1	8	6	2	1	6	10	17	13	4	0	5
Carmarthen ..	·821	42·3	41·8	42·1	37·8	47·5	26·1	3	53·2	14	40·8	40·5	88	89	8·6	7·3	5·79	1·17	12	22	3	1	18	2	1	0	16	3	6	20	2	3	7
Babbacombe..	·885	43·4	43·4	43·4	40·0	47·8	28·1	3	51·9	24	41·8	41·9	88	88	7·9	7·0	5·10	·89	27	20	2	1	15	11	2	1	12	9	12	14	5	2	1
Southbourne	·903	43·5	43·3	43·4	40·2	47·7	28·3	3	54·0	14	41·8	41·9	87	89	6·6	5·6	2·54	·35	9	16	0	3	12	4	1	3	15	4	8	11	9	1	6
Margate	·956	42·3	41·8	42·0	38·8	47·1	31·3	27	55·3	13	40·8	40·1	88	86	7·2	5·2	1·36	·20	20, 22	15	1	2	10	1	0	3	4	10	15	21	2	1	2
Marlborough	·911	40·0	39·6	39·8	36·1	45·7	26·2	3	52·3	14	38·8	38·5	90	91	8·2	6·4	2·62	·66	21	18	0	2	15	0	1	3	4	12	9	16	6	1	6
Strathfield T.	·925	42·3	41·3	41·8	37·1	48·3	27·7	3	55·2	13	40·6	39·8	86	88	6·9	6·2	1·91	·28	1	12	0	3	11	0	1	2	9	9	7	19	6	4	1
Norwood	·937	41·2	41·4	41·3	37·6	47·9	28·2	3	56·6	13	39·6	39·7	87	86	7·3	5·8	1·44	·32	1	14	1	3	11	1	3	2	9	4	11	19	6	2	2
Croydon	·939	41·3	41·0	41·1	37·3	47·9	27·4	27	56·1	13	39·6	39·3	86	86	7·1	6·2	1·78	·28	10	13	1	1	10	1	3	2	10	4	12	15	6	0	6
Hillington....	·911	40·5	39·8	40·2	35·3	46·6	27·4	29	54·9	13	39·5	38·9	92	92	7·7	6·7	·66	·24	21	9	3	2	13	0	3	2	5	12	6	22	5	3	0
Lowestoft ...	·925	41·4	40·9	41·2	37·2	46·0	30·0	3	54·5	10	39·7	39·1	86	85	7·6	5·8	·83	·17	22	11	0	3	14	0	0	3	5	11	6	15	14	4	0
Londonderry	·705	41·0	40·9	41·0	35·8	48·0	30·0	26	54·3	5	39·6	39·2	88	86	7·6	7·6	3.82	·78	20	22	3	2	17	0	2	1	0	15	17	16	2	2	3
Dublin	·751	43·1	42·8	43·0	39·2	47·5	31·8	2	54·6	9	41·1	40·7	85	84	7·9	7·4	3·52	·70	20	20	3	1	14	4	3	0	3	17	13	11	10	1	0
Killarney	29·698	44·7	43·9	44·3	39·2	49·4	28·2	2	57·0	27	42·9	42·3	86	87	8·3	7·7	10·04	1·89	20	25	2	0	16	6	4	2	5	12	5	11	10	4	5
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

PHENOMENA OBSERVED AT THE STATIONS DURING FEBRUARY, 1884.

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Cramlington	●≡	✱	●	..	..	●✱	●	●≡	●	●✱ψ	●✱	..	●	..	..	●✱	..	..	●≡	≡	●	..	●≡	..	●▲	●▲	●	✱▲	✱
Scaleby	●	●	●	●	●	●	..	..	●	●✱	●✱	●	●	..	..	..	●	..	●	●	●	●	●	..	..	..	..	..	✱
Rounton	●	●✱	●✱	..	..	..	..	●≡	●	●	●✱	●	●	●	..	..	..	..	●	●	●	..	●	..	●✱	..	..	✱	..
Scarborough	●	●▲	●✱	..	..	..	●	..	●	●✱	●	●	●	≡	..	..	..	..	●	●	●	..	●	..	●	●	..	✱	✱
Wakefield ..	●	●	..	..	..	..	●	●	●	●	●	..	..	●	..	..	..	..	●	●	●	●	●	●	●	≡	..	✱	..
Buxton	●	●✱	●✱	..	..	..	●	..	●	●✱	●✱	..	●	..	..	..	●✱	●	●	●	●	..	●	●✱	●▲T	▲	..	✱	✱
Cheadle	●	..	●✱▲	..	..	..	●	≡	●	●✱	✱	●	●	●	..	..	●✱	●	●≡	●≡	●≡	●	●≺	●	..	..	..	✱	✱
Llandudno ..	●	..	..	..	..	●	●	●	●	●▲	●	●	●	..	..	●	●✱	●	●	●	●	●	●	..	●	..	●	..	..
Leaton	●	●	●	..	..	..	●	..	●	●✱▲	●▲	..	●	●	..	●	●✱	●	●≡	●	●	●	●	●	●	..	..	≡	●
Churchstoke	●✱	✱	●	..	..	..	●	●≡ψ	●✱	●✱	●✱	..	●	●	≡	✱	●✱	..	●	●	●	●	●	●	..	..	●	✱	..
Cheltenham	●	✱	●✱	..	..	..	..	●	●	●✱	●	..	●	●	..	●	●	●	●	●	●	●	●	●	..	..	..	..	..
Carmarthen	●	..	●	●	●	..	..	●	●≺	●▲	●✱▲≺	●	●	..	..	●✱	●✱	●	●≺	●	●▲K	●	●	●	..	●	●	●	..
Babbacombe	●▲K	..	..	..	..	..	..	●	●	●✱▲	●▲	●	●	..	..	●✱	●	●	●	●	●▲≺	●○≺	●▲	●	●○	●	●	●	..
Southbourne	●▲K	..	..	..	..	..	..	●	●▲	●	●	..	●	..	..	●	●	●	●	●	●	●	●	..	..	●	●	..	..
Margate . ..	●ψ	..	..	..	..	..	..	●	●	●	●▲	●	●	●	..	..	..	●	..	●	●	●	●	●	●	..	..	✱▲	..
Marlborough	●	..	..	●	..	..	≡	●≡	●	●▲	●	..	●	●	..	●	●	●	●	●	●▲	●▲	●▲	●	..	≡	●≡	..	..
Strathfield T.	●	..	..	..	..	ψ	≡	●≡	●	●	●	..	●	..	..	..	..	●	●	●	●	●	●	..	..	..	≡	..	..
Norwood ..	●▲○	●	≡	..		≡	≡	●≡	●	●	●▲T	○	●	●≡	..	..	..	●	●≡	●	●	●○	●	..	..	..	≡	✱	≡
Croydon	●	..	≡	..	≡	..	..	●≡	●	●▲	●▲	ψ	●	●≡	..	..	..	●	●	●	●	●	●▲	≺	..	≡	≡	✱▲	..
Hillington ..	●	▲	●	ψ	..	..	..	..	●	..	..	..	..	..	..	✱	..	..	●	●	●	▲K	●	●▲	●✱	..	..	✱	..
Lowestoft ..	●	..	..	..		..	..	..	●≡	..	●	..	●	●≡	..	..	..	..	..	●	●	●	..	●	..	●	..	●▲	..
Londonderry	●✱	●	●	..	●	●	..	●	●	●✱	✱ψ	●	●	..	..	●	..	●	●	●▲	..	●	●	●	●	..	●	●	●
Dublin	●	✱ψ	..	..	..	●ψ	..	●	●	●✱▲	●✱ψ	●	●	..	..	●	●	●	●	●○	≺	●	●	●	○	●≡	●	●	●
Killarney ..	●≡	●ψ	..	..	●	●	●	●	●▲K	●✱▲K	●	●	●≡T≺	..	●	●	●	●	●	●✱	●▲	●	●▲	●	●	●	..	●	●

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✱ snow; ▲ hail; ≡ fog; K thunderstorm; T thunder; ≺ lightning; ○ solar halo; ψ lunar halo; Ψ aurora.

Abstract of Meteorological Observations for the Month of MARCH, 1884.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of				Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.														
Cramlington	29·860	40·9	39·8	40·3	35·0	47·9	27·0	22	63·8	17	39·3	38·8	87	92	7·1	5·4	2·10	·72	4	12	2	0	10	1	3	5	6	11	4	20	6	7	0
Scaleby.....	·851	42·3	41·1	41·7	36·2	49·2	30·0	3, 4, 11	67·0	16	40·9	40·0	89	91	7·8	5·8	2·23	·67	4	16	1	2	11	3	0	2	15	10	5	13	4	2	11
Rounton	·878	41·3	41·3	41·3	34·7	48·5	22·0	2	64·8	16	39·6	39·7	86	87	6·5	5·0	2·25	·75	4	10	2	4	9	2	3	4	1	6	24	6	3	6	9
Scarborough	·897	43·2	43·1	43·1	38·3	48·3	32·3	3	64·6	17	41·1	41·3	84	86	6·5	6·0	2·16	·39	31	17	2	1	8	0	2	6	7	7	11	15	8	6	0
Wakefield....	·897	41·8	42·9	42·3	36·4	50·1	29·2	1	67·4	16	40·4	41·5	89	89	7·8	6·3	1·45	·36	3	10	1	0	12	0	3	9	8	14	9	7	11	1	0
Buxton	·918	40·4	37·6	39·0	32·9	47·2	24·7	1	63·4	16	38·5	36·5	84	91	7·4	6·0	3·89	1·02	4	12	7	1	9	0	0	0	7	17	7	15	7	9	9
Cheadle	·912	39·9	40·5	40·2	35·3	48·4	29·0	1	65·9	16	38·5	39·3	89	90	6·9	5·3	2·24	·61	4	11	3	2	9	1	0	0	18	10	11	7	5	6	5
Llandudno ..	·865	44·8	44·1	44·5	39·5	49·7	30·0	11	67·5	16	41·8	41·6	78	81	7·7	6·8	2·12	·71	4	12	0	2	18	0	0	2	7	9	11	17	13	3	0
Leaton	·912	42·8	40·7	41·8	34·2	50·3	26·5	3	66·0	16	..	..	..	..	8·0	5·5	1·77	·46	4	14	3	0	13	..	0	1	10	13	12	7	11	5	3
Churchstoke..	·912	41·6	41·0	41·3	35·1	49·2	28·5	24	64·8	16	39·4	39·2	83	85	7·8	7·3	3·00	·76	3	16	3	0	14	0	0	1	8	16	11	12	9	5	0
Cheltenham ..	·917	43·6	42·5	43·0	36·3	50·3	25·6	2, 3	65·0	16	41·7	40·9	85	88	6·6	6·1	2·45	·90	3	14	0	3	10	0	1	6	5	7	25	4	6	6	2
Carmarthen	·881	45·5	42·9	44·2	39·0	50·6	31·0	11	64·7	16	42·2	40·6	76	82	7·0	6·5	6·44	1·32	3	18	1	3	15	0	3	0	13	10	9	11	4	4	8
Babbacombe..	·934	45·8	43·3	44·6	40·0	50·8	31·9	24	59·5	17	43·1	41·5	80	86	6·9	6·6	3·18	1·38	3	16	1	3	14	3	0	9	8	4	16	11	8	4	2
Southbourne	·941	44·2	43·6	43·9	39·0	50·0	31·3	1	56·9	16	41·9	41·8	82	86	6·2	3·4	2·54	1·25	3	10	0	6	5	0	7	11	2	5	12	6	4	9	6
Margate	·960	44·8	43·6	44·2	39·6	51·0	29·1	3	65·6	18	42·3	41·4	81	83	7·0	5·2	1·01	·70	10	11	0	6	12	0	5	6	8	7	14	8	9	3	2
Marlborough	·948	41·3	41·1	41·2	35·5	49·7	27·2	3	64·3	16	39·8	39·4	88	86	8·2	5·4	2·57	1·12	3	11	0	3	13	0	3	3	15	2	15	4	8	3	9
Strathfield T.	·953	43·6	42·0	42·8	35·8	52·0	25·8	3	67·3	16	41·9	40·5	87	88	7·3	4·1	1·72	·63	3	9	0	5	11	0	4	6	8	10	8	10	9	7	0
Norwood	·957	43·5	43·4	43·4	37·9	51·8	26·8	1	67·6	16	40·9	40·8	80	80	6·5	4·7	1·37	·55	10	11	0	7	8	0	3	6	7	0	15	8	11	4	8
Croydon	·955	43·5	43·1	43·3	37·7	51·1	26·6	1	66·8	16	40·8	40·5	80	81	6·8	4·4	1·46	·47	10	9	1	5	9	0	2	9	4	4	15	12	9	2	5
Hillington ..	·933	43·7	41·5	42·6	35·6	51·2	24·9	1	69·3	16	42·2	40·6	88	92	7·4	6·1	1·30	·40	3	12	1	2	13	0	3	11	9	9	11	10	5	4	0
Lowestoft	·927	43·8	42·4	43·1	37·5	48·8	28·0	1	62·0	18	41·5	40·6	82	86	7·3	6·5	·97	·41	10	13	0	4	16	0	3	8	8	4	11	12	10	6	0
Londonderry	·769	43·9	42·6	..	37·9	50·0	30·0	11	64·8	16	41·6	40·8	82	86	8·1	6·6	3·13	·45	2	22	3	1	14	1	1	2	2	13	17	17	7	1	2
Dublin	·829	45·2	44·3	44·7	40·3	50·5	31·2	11	61·1	16	42·1	41·5	77	79	6·8	5·9	1·86	·47	9	17	2	2	9	2	0	1	6	10	14	14	11	4	2
Killarney	29·785	45·6	43·9	44·8	39·3	50·4	27·8	8	58·5	16	43·8	42·3	87	87	8·3	6·8	8·15	1·24	12	25	3	0	12	3	1	1	5	9	11	14	7	6	8
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Cramlington	●	≡	●≡	●≡	..	ψ	..	●≡	●✳	●✳	≡	≡	≡	..	≡	≡	≡	●	..	●	●▲	●	..	..	≡	..	..	..	..	●≡	●≡
Scaleby	..	..	●	●	..	●≡	●	●	●	●✳	..	●	●	●	..	..	..	●	●	●	●	●	..	..	..	..	..	..	..	..	●
Rounton	..	●	●✳	●	..	●	..	●	●	●✳	..	..	..	..	..	..	●	..	..	..	..	●	..	..	..	..	..	..	..	..	●
Scarborough	●✳	✳	●	●	●	..	..	●	●○	◉	●ψ	..	◉	..	..	..	●	..	..	●	●	..	..	..	..	●	●▲	●	..	●	●
Wakefield ..	..	◉	●✳	●	..	..	..	●	●	●	..	..	●	..	..	..	●	..	..	●	..	..	..	..	..	..	..	..	..	..	●
Buxton	..	●	●✳	●	●	..	..	..	●✳	✳	✳	..	●	..	..	..	●	..	●	●✳▲	●✳▲	▲	..	..	..	▲	..	..	..	..	●✳
Cheadle	..	●	●✳	●	..	..	..	◉	●	●✳	..	≡	●	..	..	..	◉	..	..	●	▲	●	..	..	≡	..	..	..	..	..	●✳
Llandudno ..	..	●	●	●	..	..	●	●	●	●	..	●	..	..	..	..	..	..	..	●▲	..	●	..	..	..	..	..	..	..	●	●
Leaton ...	●✳	●	●✳	●	..	..	●	●	●	●✳	●	●	◉	..	..	..	●	..	..	●	..	..	..	..	..	..	..	..	..	..	●
Churchstoke	●✳	●≡	●✳	●	..	..	●	●	●	●✳	..	●	◉	..	..	..	●	..	●	●▲	..	..	●	..	..	..	..	..	..	●	●
Cheltenham	..	●	●ψ	●	●	..	..	●	●	●ψ	●ψ	●	●	..	..	..	●	..	..	●	●▲	..	..	..	..	..	..	..	..	..	●
Carmarthen	●	●	●	●	..	..	◉	●	●	●✳▲	..	●	◉	●	..	..	●	●	●	●	..	●	..	..	..	..	..	..	..	●	●
Babbacombe	●	●	●≡	●	..	ψ	●ψ	●	●○	●▲ψ	ψ	●	●	..	..	..	●○	○	●	●	..	●	..	○	○	..	..	..	..	●○	●✳
Southbourne	..	●	●	●	..	..	..	●	●	●	..	..	..	..	..	..	..	..	●	..	◉	●	..	..	..	..	..	..	..	..	●
Margate	●	..	●	..	..	..	ψ	●≡	●ψ	●ψ	●	●	..	..	..	..	..	..	..	..	..	..	..	●	●	..	●	..	..	●≡	..
Marlborough	..	●	●	●	..	≡	ψ	●	●	●	ψ	●≡	..	..	..	..	..	≡	●	●	..	●	..	..	≡	..	..	..	..	..	●
Strathfield T.	≡	●	●	●	..	..	ψ	●≡ψ	●	●	..	≡	..	..	..	..	..	..	●	●	..	..	..	..	≡	..	..	..	..	..	●
Norwood	○≡	≡	●	●	..	..	≡ψ	●≡○	●	●ψ	≡	≡○	..	○	..	≡	≡	..	●≡	●	▲	≡	≡○	≡	●≡	●	..	≡	≡	●≡	●○
Croydon	≡	≡	●	●	≡	≡	≡ψ	●	●	●▲ψ	✳	..	..	..	..	..	≡	..	..	●	..	≡	..	≡	●	..	..	..	..	●≡	●ψ
Hillington ..	●	✳	●	●	..	..	ψ	●	●	●	●	..	..	..	..	..	..	..	..	..	●	●	..	●	●	..	..	..	..	●	..
Lowestoft ..	●	●	●	●	..	..	..	●	●	●	●	..	..	..	..	..	..	..	..	..	●	..	●	●	●▲	..	..	..	..	..	●
Londonderry	●	●	●▲	●	●	●	..	●	●	●✳	..	●	●	●	..	●	●	●▲	●	●	..	●	..	●	●	..	≡	..	..	●✳	●✳
Dublin	●	●	●	●≡	ψ	●	◉	..	●○	✳	●	◉ψ	◉	..	○	..	●	●	●	●▲	..	..	..	≡	..	..	..	..	..	●	●✳▲
Killarney ..	●	●	●○ψ	..	●	●	●▲	●▲	●	●✳	●✳▲	●▲ᛕ	●	●	●	●	●	..	●	●▲	●	●	..	●	●	≡	..	..	●	●	●✳

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✳ snow; ▲ hail; ≡ fog; ᛕ thunderstorm; ᛉ thunder; ᛊ lightning; ○ solar halo; ψ lunar halo; Ψ aurora.

Abstract of Climatological Observations for the Quarter ending MARCH 31st, 1884.

JANUARY.

Station.	Means at 9 a.m.		Temperature. Means.				Temperature. Extremes in Month.			Mean Amount of Cloud at 9 a.m.	Rain.	
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.	
Cramlington .	40·9	87	36·4	46·1	9·7	41·3	28·8	52·8	24·0	7·2	3·28	18
Stapleton	39·9	95	35·5	45·3	9·8	40·4	24·6	49·8	25·2	9·5	6·91	30
Scaleby	41·4	93	37·9	46·5	8·6	42·2	28·0	54·0	26·0	8·5	5·03	26
Alston	38·3	91	33·7	42·2	8·5	38·0	25·7	49·8	24·1	9·1	8·63	28
Seathwaite ..	42·3	86	39·0	45·5	6·5	42·3	29·2	51·5	22·3	9·5	22·19	29
St. Mich.-on-Wyre	42·7	89	39·1	46·9	7·8	43·0	32·2	51·8	19·6	8·8	5·05	26
Blackpool	43·1	90	39·8	46·2	6·4	43·0	31·2	50·7	19·5	8·0	4·42	25
Bolton	41·3	92	37·8	45·8	8·0	41·8	30·1	52·1	22·0	9·0	6·01	26
Rounton	41·1	90	37·2	46·2	9·0	41·7	29·9	53·3	23·4	7·4	3·44	17
Scarborough ..	42·6	86	38·6	47·2	8·6	42·9	29·5	53·8	24·3	7·0	2·99	17
Wakefield	43·0	90	39·6	47·9	8·3	43·8	32·3	56·6	24·3	8·4	3·66	18
Hodsock	41·9	86	38·3	47·7	9·4	43·0	32·0	54·5	22·5	7·5	2·77	17
Strelley	40·9	88	37·2	46·2	9·0	41·7	30·7	52·7	22·0	7·2	2·86	18
Belper	41·6	87	37·8	46·5	8·7	42·1	30·9	52·9	22·0	4·9	3·75	19
Cheadle	40·6	92	37·2	46·3	9·1	41·8	28·9	52·1	23·2	7·8	2·98	19
Oakamoor	..	..	..	..	..	..	..	..	..	9·7	3·48	17
Buxton	40·0	91	35·6	44·5	8·9	40·1	29·0	50·1	21·1	8·5	7·35	21
Macclesfield ..	41·7	94	38·0	46·0	8·0	42·0	30·0	52·5	22·5	7·5	4·03	21
Chester	44·1	83	40·4	48·5	8·1	44·5	32·4	55·4	23·0	8·5	2·71	16
Leaton	43·2	..	38·5	47·7	9·2	43·1	30·5	53·8	23·3	..	3·22	16
Churchstoke ..	42·9	88	37·8	47·5	9·7	42·7	30·5	54·0	23·5	9·0	4·01	19
Kenilworth ..	42·1	89	38·6	47·3	8·7	43·0	31·2	53·4	22·2	7·6	2·77	19
Burghill	43·0	87	39·4	48·8	9·4	44·1	32·0	57·6	25·6	7·9	2·21	18
Boss	44·0	86	40·2	49·3	9·1	44·8	31·6	54·4	22·8	7·3	3·28	18
Cheltenham	44·1	91	39·9	48·3	8·4	44·1	38·4	53·8	15·4	7·9	2·74	17

FEBRUARY.

Station.	Means at 9 a.m.		Temperature. Means.				Temperature. Extremes in Month.			Mean Amount of Cloud at 9 a.m.	Rain.	
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.	
Cramlington .	39·6	89	34·0	45·0	11·0	39·5	24·8	51·8	27·0	7·9	·95	18
Stapleton	38·8	92	33·9	43·8	9·9	38·9	22·2	49·0	26·8	9·0	3·12	22
Scaleby	40·0	94	35·4	45·6	10·2	40·5	26·5	51·8	25·3	8·3	1·71	18
Alston	36·6	89	32·2	40·9	8·7	36·5	16·9	46·8	29·9	9·3	4·11	25
Seathwaite ..	39·5	86	36·1	43·5	7·4	39·8	27·1	49·5	22·4	8·5	14·68	21
St. Mich.-on-Wyre	40·4	87	36·1	45·8	9·7	41·0	25·4	52·5	27·1	8·0	2·55	19
Blackpool	40·6	91	36·4	45·1	8·7	40·8	27·2	50·8	23·6	6·8	2·94	21
Bolton	38·9	88	35·0	44·1	9·1	39·6	26·5	49·4	22·9	8·2	3·38	20
Rounton	39·9	89	35·0	44·9	9·9	40·0	27·0	50·8	23·8	7·3	1·11	15
Scarborough ..	41·4	85	37·5	45·4	7·9	41·5	30·0	53·0	23·0	6·9	1·75	17
Wakefield	41·1	88	36·7	46·3	9·6	41·5	23·6	53·6	30·0	8·0	2·22	16
Hodsock	40·4	85	35·5	47·1	11·6	41·3	21·6	54·4	32·8	6·7	1·29	17
Strelley	38·8	89	34·5	45·4	10·9	40·0	26·3	52·7	26·4	6·7	1·62	13
Belper	39·3	88	35·3	45·3	10·0	40·3	27·2	52·1	24·9	5·0	2·97	15
Cheadle	38·0	91	34·7	44·6	9·9	39·6	26·2	50·8	24·6	7·2	2·06	18
Oakamoor	..	..	..	..	..	..	..	..	..	8·4	1·97	13
Buxton	37·9	89	32·7	43·2	10·5	37·9	19·0	51·0	32·0	7·2	3·19	17
Macclesfield ..	39·3	89	35·9	44·8	8·9	40·4	26·4	51·3	24·9	6·6	1·53	14
Chester	41·2	83	37·1	46·9	9·8	42·0	28·7	53·8	25·1	8·5	2·76	20
Leaton	40·5	89	35·5	46·1	10·6	40·8	27·2	51·8	24·6	7·3	2·14	20
Churchstoke ..	39·7	86	35·1	45·3	10·2	40·2	23·9	52·5	28·6	7·6	4·08	18
Kenilworth ..	39·9	88	35·4	45·8	10·4	40·6	25·0	51·9	26·9	7·1	1·36	15
Burghill	40·5	87	36·0	47·2	11·2	41·6	26·9	55·2	28·3	8·1	2·33	18
Boss	41·3	85	36·6	47·1	10·6	41·9	27·4	53·8	26·4	6·9	2·66	19
Cheltenham	41·8	89	36·3	46·9	10·6	41·6	25·8	52·6	26·8	7·4	1·66	17

MARCH.

Station.	Means at 9 a.m.		Temperature. Means.				Temperature. Extremes in Month.			Mean Amount of Cloud at 9 a.m.	Rain.	
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.	
Cramlington .	40·9	87	35·0	47·9	12·9	41·4	27·0	63·8	36·8	7·1	2·10	12
Stapleton	40·9	85	34·9	46·7	11·8	40·8	26·1	64·1	38·0	8·4	2·81	19
Scaleby	42·3	89	36·2	49·2	13·0	42·7	30·0	67·0	37·0	7·8	2·23	16
Alston	38·2	83	32·3	44·6	12·3	38·5	18·0	62·3	44·3	7·5	3·60	19
Seathwaite ..	41·2	80	37·5	46·8	9·3	42·1	28·9	65·8	36·9	7·3	13·71	20
St. Mich.-on-Wyre	43·5	82	36·9	49·9	13·0	43·4	28·4	66·2	37·8	8·3	3·01	19
Blackpool	42·5	90	36·9	48·2	11·3	42·5	27·7	63·9	36·2	7·5	3·04	16
Bolton	40·9	85	35·5	47·6	12·1	41·5	29·8	65·5	35·7	8·1	3·46	16
Rounton	41·3	86	34·7	48·5	13·8	41·6	22·0	64·8	42·8	6·5	2·25	10
Scarborough ..	43·2	84	38·3	48·3	10·0	43·3	32·3	64·6	32·3	6·5	2·16	17
Wakefield	41·8	89	36·4	50·1	13·7	43·2	29·2	67·4	38·2	7·8	1·45	10
Hodsock	42·2	83	34·7	50·8	16·1	42·8	24·1	68·4	44·3	6·9	1·50	9
Strelley	41·1	86	35·3	49·4	14·1	42·3	29·0	66·1	37·1	7·0	1·71	11
Belper	40·5	87	35·1	49·2	14·1	42·2	29·5	66·4	36·9	3·4	2·36	10
Cheadle	39·9	89	35·3	48·4	13·1	41·9	29·0	65·9	36·9	6·9	2·24	11
Oakamoor	..	..	..	..	..	..	..	..	..	9·0	..	..
Buxton	40·4	84	32·9	47·2	14·3	40·1	24·7	63·4	38·7	7·4	3·89	12
Macclesfield ..	41·0	86	36·1	48·4	12·3	42·2	30·5	66·0	35·5	7·2	2·58	12
Chester	43·2	81	37·1	50·4	13·3	43·7	29·2	66·3	37·1	8·7	3·09	12
Leaton	42·8	..	34·2	50·3	16·1	42·3	26·5	66·0	39·5	8·0	1·77	14
Churchstoke ..	41·6	83	35·1	49·2	14·1	42·1	28·5	64·8	36·3	7·8	3·00	16
Kenilworth ..	41·4	86	35·8	49·7	13·9	42·7	28·7	67·0	38·3	6·9	1·83	12
Burghill	43·1	84	36·5	51·7	15·2	44·1	29·5	65·6	36·1	7·5	2·28	14
Boss	44·8	80	36·9	51·4	14·5	44·1	29·4	66·0	36·6	5·6	2·62	16
Cheltenham	43·6	85	36·3	50·3	14·0	43·3	25·6	65·0	39·4	6·6	2·45	14

Station.	JANUARY.												FEBRUARY.												MARCH.											
	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.								Means.				Extremes in Month.								Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	°/°	°	°	°	°	°	°	°		In.		°	°/°	°	°	°	°	°	°	°		In.		°	°/°	°	°	°	°	°	°		In.	
Llandudno	45·1	85	41·1	48·8	7·7	45·0	32·2	54·0	21·8	8·1	4·52	19	43·1	82	38·2	46·9	8·7	42·5	32·2	57·0	24·8	8·2	2·98	19	44·8	78	39·5	49·7	10·2	44·6	30·0	67·5	37·5	7·7	2·12	12
Carmarthen ..	45·6	90	40·9	48·5	7·6	44·7	31·5	53·2	21·7	8·6	6·90	21	42·3	88	37·8	47·5	9·7	42·7	26·1	53·2	27·1	8·6	5·79	22	45·5	76	39·0	50·6	11·6	44·8	31·0	64·7	33·7	7·0	6·44	18
Cardiff.....	44·3	91	41·2	48·0	6·8	44·6	32·9	53·3	20·4	..	6·03	21	41·8	89	38·6	45·7	7·1	42·2	29·4	49·5	20·1	..	4·40	22	43·7	85	39·3	49·4	10·1	44·3	33·4	59·8	26·4	..	3·39	17
Weston-s-Mare	45·2	90	42·2	49·1	6·9	45·7	33·0	55·0	22·0	8·3	2·85	20	43·1	87	39·5	48·0	8·5	43·7	31·0	53·8	22·8	7·9	2·10	20	45·2	82	40·9	51·3	10·4	46·1	34·1	65·8	31·7	6·9	2·44	17
Ilfracombe ..	47·9	89	44·4	50·9	6·5	47·7	36·3	58·8	22·5	8·6	3·59	21	44·8	88	41·2	48·6	7·4	44·9	34·0	54·0	20·0	7·7	2·86	20	46·8	82	43·0	51·3	8·3	47·1	36·8	63·2	26·4	5·8	3·88	15
Bude	47·0	94	43·3	49·9	6·6	46·6	34·1	55·3	21·2	8·8	3·81	19	43·2	94	39·0	48·4	9·4	43·7	27·1	54·0	26·9	6·7	2·97	19	44·9	92	39·7	51·4	11·7	45·6	31·1	63·8	32·7	5·5	2·88	10
Helston	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4·30	..	..	..	..	..	..	..	..	..	..	8·1	3·80	22
Falmouth	47·4	87	43·8	50·5	6·7	47·2	33·7	55·0	21·3	8·6	5·07	23	45·7	87	41·8	49·2	7·4	45·5	31·7	53·4	21·7	8·3	5·22	20	47·1	80	42·1	50·6	8·5	46·3	35·6	57·7	22·1	7·7	4·19	21
Maker	45·7	89	42·6	48·8	6·2	45·7	33·5	52·5	19·0	8·8	3·28	22	44·1	88	40·8	47·4	6·6	44·1	29·4	52·2	22·8	8·1	3·38	22	45·2	82	40·7	50·1	9·4	45·4	33·3	56·6	23·3	6·3	3·09	19
Ashburton	44·2	93	40·7	49·1	8·4	44·9	32·1	53·9	21·8	7·6	7·46	20	42·7	91	38·6	47·4	8·8	43·0	29·2	52·9	23·7	7·7	8·36	21	44·7	85	38·8	50·4	11·6	44·6	32·0	59·0	27·0	5·4	5·23	16
Bridgetown....	45·4	90	41·3	50·1	8·8	45·7	33·4	55·9	22·5	8·4	6·44	21	43·6	90	38·6	49·6	11·0	44·1	25·5	56·2	30·7	7·8	6·06	22	45·8	81	36·7	53·1	16·4	44·9	27·4	62·4	35·0	6·6	4·52	17
Torquay	46·1	90	42·5	49·8	7·3	46·2	32·8	53·7	20·9	8·4	4·16	16	44·4	90	40·2	47·7	7·5	43·9	29·3	51·7	22·4	6·6	4·73	18	45·8	84	40·5	50·2	9·7	45·4	33·3	56·7	23·4	4·5	2·61	14
Babbacombe ..	44·9	90	41·4	48·9	7·5	45·2	32·8	53·0	20·2	8·4	4·87	17	43·4	88	40·0	47·8	7·8	43·9	28·1	51·9	23·8	7·9	5·10	20	45·8	80	40·0	50·8	10·8	45·4	31·9	59·5	27·6	6·9	3·18	16
Teignmouth, B.	45·2	90	42·1	49·8	7·7	46·0	34·2	53·8	19·6	8·4	3·77	17	43·8	91	40·7	48·2	7·5	44·4	29·7	53·1	23·4	7·8	4·87	19	45·5	82	40·4	51·5	11·1	46·0	33·7	58·9	25·2	6·6	3·39	15
Teignmouth, W.	44·9	91	41·0	49·7	8·7	45·4	32·2	54·6	22·4	7·8	4·10	18	43·4	90	39·3	48·3	9·0	43·8	28·2	53·8	25·6	6·5	5·06	22	45·9	82	39·7	52·2	12·5	45·9	34·2	59·0	24·8	6·5	3·36	17
Sidmouth	44·9	90	41·3	49·4	8·1	45·4	32·8	55·7	22·9	9·2	3·69	24	43·6	90	40·1	47·5	7·4	43·8	28·0	52·0	24·0	8·5	4·38	25	45·0	84	39·8	49·4	9·6	44·6	33·9	56·5	22·6	7·9	3·36	18
Brampford Spk.	44·3	92	40·2	49·1	8·9	44·7	33·0	54·8	21·8	8·4	3·48	20	42·6	91	38·3	47·7	9·4	43·0	28·0	52·7	24·7	7·7	4·52	23	44·1	87	38·0	51·4	13·4	44·7	30·1	61·3	31·2	7·0	3·08	19
Cullompton ..	44·5	89	39·9	49·1	9·2	44·5	32·4	54·6	22·2	8·5	4·08	20	42·5	88	37·7	47·6	9·9	42·7	25·0	53·0	28·0	7·4	3·71	22	44·7	82	36·6	51·0	14·4	43·8	28·2	60·3	32·1	6·7	3·77	16
Stowell	43·3	91	39·5	48·0	8·5	43·8	30·8	53·5	22·7	8·9	3·45	21	41·6	89	37·2	46·2	9·0	41·7	25·8	51·3	25·5	7·6	2·35	24	43·0	86	37·2	49·4	12·2	43·3	30·6	62·3	31·7	7·2	2·97	15
Weymouth	45·7	87	42·1	49·2	7·1	45·7	32·7	52·8	20·1	7·7	3·09	17	44·7	84	41·2	48·1	6·9	44·6	30·2	53·0	22·8	7·1	2·89	19	45·3	81	41·1	50·1	9·0	45·6	34·7	56·8	22·1	5·6	2·26	9
Swanage	46·2	88	41·2	48·3	7·1	44·7	31·7	52·4	20·7	7·7	2·17	11	44·8	91	40·5	46·8	6·3	43·7	29·4	49·9	20·5	7·4	2·75	20	46·2	84	40·2	48·6	8·4	44·4	35·0	54·2	19·2	6·3	2·53	7
Southbourne ..	44·4	92	41·2	48·5	7·3	44·9	32·5	55·7	23·2	7·1	2·92	19	43·5	87	40·2	47·7	7·5	43·9	28·3	54·0	25·7	6·6	2·54	16	44·2	82	39·0	50·0	11·0	44·5	31·3	56·9	25·6	6·2	2·54	10
Southampton..	43·3	92	38·5	48·6	10·1	43·6	31·3	53·6	22·3	8·1	3·49	24	42·4	89	37·2	47·6	10·4	42·4	24·9	54·7	29·8	7·8	2·43	18	44·0	84	36·7	51·8	15·1	44·2	26·6	61·9	35·3	7·5	2·44	13
Portsmouth ..	44·5	90	40·8	49·1	8·3	45·0	29·6	53·7	24·1	6·3	3·00	19	43·2	91	40·1	48·4	8·3	44·2	30·1	55·5	25·4	6·6	2·37	18	44·2	86	39·0	52·2	13·2	45·6	32·6	61·1	28·5	4·6	2·04	13
Ventnor	45·5	87	42·0	49·9	7·9	46·0	34·0	53·2	19·2	7·8	3·61	18	44·6	85	41·4	49·3	7·9	45·3	31·0	56·0	25·0	7·3	2·29	16	46·3	77	41·1	51·8	10·7	46·5	34·0	58·8	24·8	6·0	1·78	8
Worthing	43·4	91	39·6	47·7	8·1	43·7	31·9	51·4	19·5	7·1	3·05	17	43·5	86	40·1	47·5	7·4	43·8	31·0	53·2	22·2	6·4	1·23	13	44·6	82	39·7	50·5	10·8	45·1	30·2	57·8	27·6	5·6	1·58	7
Hastings	43·1	91	39·0	..	..	..	31·5	..	..	7·2	3·86	22	43·0	88	39·6	..	..	..	30·8	..	..	6·1	2·01	18	44·4	86	39·7	..	..	..	29·0	..	..	5·7	1·87	13

Abstract of Climatological Observations for the Quarter ending MARCH 31st, 1884.

Station.	JANUARY.												FEBRUARY.												MARCH.											
	Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.								Means.				Extremes in Month.								Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.	
Ramsgate	42·1	89	38·1	47·7	9·6	42·9	30·9	53·5	22·6	7·7	2·00	15	42·5	87	38·6	47·3	8·7	43·0	31·0	53·1	22·1	7·0	1·48	14	44·5	81	38·7	50·9	12·2	44·8	27·0	63·6	36·6	7·0	·92	10
Margate	42·6	89	39·0	47·3	8·3	43·2	31·2	54·6	23·4	7·6	2·03	16	42·3	88	38·8	47·1	8·3	42·9	31·3	55·3	24·0	7·2	1·36	15	44·8	81	39·6	51·0	11·4	45·3	29·1	65·6	36·5	7·0	1·01	11
Southend	41·8	92	38·5	..	..	..	32·0	..	..	8·1	1·73	12	41·7	91	38·4	..	..	..	29·1	..	..	6·7	·99	15	44·4	87	38·7	..	..	..	30·0	..	..	6·5	1·07	7
Marlborough ..	42·0	90	38·4	46·9	8·5	42·7	30·0	52·9	22·9	8·2	3·57	18	40·0	90	36·1	45·7	9·6	40·9	26·2	52·3	26·1	8·2	2·62	18	41·3	88	35·5	49·7	14·2	42·6	27·2	64·3	37·1	8·2	2·57	11
Strathfield Turg.	43·6	89	39·4	48·8	9·4	44·1	30·7	56·2	25·5	8·4	3·03	19	42·3	86	37·1	48·3	11·2	42·7	27·7	55·2	27·5	6·9	1·91	12	43·6	87	35·8	52·0	16·2	43·9	25·8	67·3	41·5	7·3	1·72	9
Harestock	42·6	90	38·5	47·8	9·3	43·2	30·3	52·9	22·6	8·3	3·14	17	41·1	88	36·5	46·6	10·1	41·5	26·8	51·4	24·6	8·6	2·49	12	42·3	85	35·6	50·2	14·6	42·9	27·2	62·1	34·9	8·3	2·77	10
Swarraton	42·6	90	38·8	47·7	8·9	43·3	30·7	53·0	22·3	8·5	3·14	16	40·7	90	36·6	46·4	9·8	41·5	25·7	51·6	25·9	7·5	2·74	13	42·2	88	35·4	50·0	14·6	42·7	25·3	64·0	38·7	8·0	2·62	9
Tunb. Wells ..	41·8	..	37·7	46·5	8·8	42·1	28·8	51·5	22·7	8·4	3·41	18	40·4	..	36·4	45·8	9·4	41·1	26·8	54·5	27·7	7·6	1·87	17	42·6	..	36·8	50·3	13·5	43·6	28·3	65·5	37·2	6·7	2·04	8
Tunbridge	43·0	90	39·3	48·0	8·7	43·7	31·3	54·1	22·8	7·5	3·23	17	42·1	86	37·9	47·5	9·6	42·7	29·4	55·6	26·2	6·1	1·53	14	43·6	81	37·0	52·4	15·4	44·7	25·2	67·4	42·2	6·2	1·61	9
Beddington....	42·8	89	38·8	48·0	9·2	43·4	31·1	55·0	23·9	8·1	2·27	16	41·3	87	37·2	47·1	9·9	42·2	27·4	55·1	27·7	7·4	1·51	12	43·4	81	36·4	51·2	14·8	43·8	25·1	66·7	41·6	6·7	1·42	9
Croydon	43·0	88	39·4	48·1	8·7	43·8	31·0	54·9	23·9	7·8	2·58	16	41·3	86	37·3	47·9	10·6	42·6	27·4	56·1	28·7	7·1	1·78	13	43·5	80	37·7	51·1	13·4	44·4	26·6	66·8	40·2	6·8	1·46	9
South Norwood.	43·0	89	38·6	48·3	9·7	43·5	30·8	54·9	24·1	7·7	2·04	15	41·4	88	37·0	47·6	10·6	42·3	27·6	56·7	29·1	7·7	1·89	13	43·7	81	37·3	51·6	14·3	44·4	25·9	68·3	42·4	7·4	1·28	9
Norwood	43·0	89	39·4	48·1	8·7	43·8	31·4	55·0	23·6	7·8	1·96	18	41·2	87	37·6	47·9	10·3	42·7	28·2	56·6	28·4	7·3	1·44	14	43·5	80	37·9	51·8	13·9	44·9	26·8	67·6	40·8	6·5	1·37	11
Isleworth	42·8	88	39·1	48·3	9·2	43·7	31·6	54·8	23·2	8·2	2·20	17	41·7	84	37·4	48·3	10·9	42·9	27·9	56·8	28·9	7·5	1·61	14	43·3	80	36·9	52·3	15·4	44·6	26·8	68·1	41·3	6·9	1·24	9
London, Old St.	44·5	85	40·8	48·9	8·1	44·9	32·5	55·7	23·2	8·8	2·25	19	42·4	83	39·2	47·8	8·6	43·5	30·8	56·6	25·8	8·2	1·34	16	44·1	80	40·0	51·9	11·9	45·9	30·5	67·1	36·6	8·3	1·31	9
Regent's Park..	43·3	89	39·9	48·0	8·1	44·0	31·9	55·3	23·4	..	2·14	16	41·3	85	38·3	46·7	8·4	42·5	28·7	56·7	28·0	..	1·34	14	43·0	83	38·5	53·1	14·6	45·8	28·7	68·3	39·6	..	1·30	7
Finchley	41·8	92	37·4	47·0	9·6	42·2	30·5	54·2	23·7	8·0	2·47	17	40·2	90	35·6	45·9	10·3	40·8	26·3	54·7	28·4	7·4	1·67	16	42·0	87	36·2	50·7	14·5	43·4	26·2	66·1	39·9	7·0	1·70	9
Watford	42·7	89	38·8	47·5	8·7	43·2	31·6	53·8	22·2	7·4	2·90	15	40·7	89	36·1	46·7	10·6	41·4	27·3	54·0	26·7	6·5	1·29	14	42·6	86	36·3	51·4	15·1	43·8	26·1	67·8	41·7	7·0	1·96	11
Throcking	40·5	94	37·1	45·6	8·5	41·4	30·4	51·6	21·2	7·3	2·07	15	39·2	93	35·0	45·5	10·5	40·2	26·7	51·9	25·2	7·2	·67	13	41·8	86	35·4	50·5	15·1	43·0	27·3	66·2	38·9	6·1	1·07	6
Aspley Guise ..	42·1	90	38·4	46·7	8·3	42·6	31·0	53·1	22·1	7·8	2·10	18	40·3	88	35·3	46·5	11·2	40·9	26·0	56·9	30·9	7·1	·82	12	43·4	85	35·9	51·0	15·1	43·4	27·2	66·7	39·5	6·8	1·16	7
Hillington	40·7	93	37·3	46·6	9·3	42·0	29·5	54·8	25·3	8·2	1·95	17	40·5	92	35·3	46·6	11·3	40·9	27·4	54·9	27·5	7·7	·66	9	43·7	88	35·6	51·2	15·6	43·4	24·9	69·3	44·4	7·4	1·30	12
Cromer	41·9	92	38·1	47·5	9·4	42·8	31·8	56·3	24·5	7·1	1·59	12	41·1	88	36·2	46·2	10·0	41·2	30·8	55·2	24·4	6·6	·65	10	43·8	87	37·5	50·2	12·7	43·9	25·8	68·9	43·1	6·6	1·51	11
Somerleyton ..	41·2	90	37·7	47·2	9·5	42·5	32·1	56·1	24·0	7·0	1·46	13	41·1	88	37·3	46·1	8·8	41·7	29·1	53·6	24·5	7·0	1·02	16	43·6	84	36·4	50·4	14·0	43·4	25·3	64·8	39·5	7·2	1·30	13
Lowestoft	41·3	89	37·6	46·7	9·1	42·2	32·5	56·1	23·6	7·1	1·51	14	41·4	86	37·2	46·0	8·8	41·6	30·0	54·5	24·5	7·6	·83	11	43·8	82	37·5	48·8	11·3	43·1	28·0	62·0	34·0	7·3	·97	13
Guernsey	46·3	90	43·0	50·0	7·0	46·5	35·9	54·1	18·2	7·7	3·79	17	44·8	91	42·1	48·5	6·4	45·3	35·9	52·7	16·8	6·4	2·69	16	46·5	84	42·9	51·4	8·5	47·2	37·0	60·4	23·4	5·8	2·25	11
Londonderry ..	42·5	80	38·2	48·4	10·2	43·3	29·5	54·1	24·6	7·8	6·40	28	41·0	88	35·8	48·0	12·2	41·9	30·0	54·3	24·3	7·6	3·82	22	43·9	82	37·9	50·0	12·1	44·0	30·0	64·8	34·8	8·1	3·13	20
Dublin	42·5	80	38·2	48·4	10·2	43·3	29·5	54·1	24·6	7·8	2·30	18	41·0	88	35·8	48·0	12·2	41·9	30·0	54·3	24·3	7·6	3·82	22	43·9	82	37·9	50·0	12·1	44·0	30·0	64·8	34·8	8·1	3·13	20

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WITH

REMARKS ON THE WEATHER

FOR THE QUARTER ENDING

JUNE 30TH, 1884.

BY

WILLIAM MARRIOTT, F.R.Met.Soc.

Assistant-Secretary.

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REMARKS

ON THE

WEATHER OVER ENGLAND

FOR THE QUARTER ENDING JUNE 30TH, 1884.

THE Temperature in April was below the average, and being accompanied with dry Easterly winds, the weather was very ungenial. Sharp frosts occurred on several nights, those of the 22nd and 23rd especially, doing much damage to the fruit crop. May and June were fine; the former being warm during the greater part, while the latter was cold. The rainfall throughout the quarter was considerably below the average.

AIR TEMPERATURE was about the average.

In *April* the mean temperature (mean of maximum and minimum) was 44°·7, and varied from 46°·7 at Falmouth, Ilfracombe, Portsmouth and Ventnor, 46°·6 at London, Ramsgate, and Teignmouth, 46°·3 at Cromer, Margate, and Weston-super-Mare, 46°·2 at Regent's Park and 46°·0 at Maker, to 40°·1 at Alston, 41°·4 at Buxton, 42°·6 at Rounton, 42°·8 at Cramlington, 43°·1 at Churchstoke, 43°·2 at Marlborough, Stowell, and Swarraton, 43°·3 at Cheadle, and 43°·4 at Macclesfield and Throcking. The weather was cold and dry throughout the month. The maximum temperatures occurred in the South-east on the 2nd, and in the other districts on various dates between the 2nd and 9th. The highest readings were:—On the 2nd, 69°·3 at Regent's Park, 68°·6 at Hillington, 67°·9 at Cromer, 67°·6 at Isleworth, and 67°·5 at Watford; and on the 3rd, 65°·5 at Scaleby. The minimum temperatures took place generally on the 23rd. The lowest readings were:—On the 11th, 21°·5 at Alston; on the 20th, 22°·3 at Alston; and on the 23rd, 22°·0 at Beddington and Buxton, 22°·1 at Swarraton, 23°·2 at Marlborough and Strathfield Turgiss, 23°·4 at Leaton, and 23°·6 at Hodsock. The mean daily range of temperature was 14°·2.

In *May* the mean temperature was 52°·8, and varied from 55°·9 at London, 55°·8 at Portsmouth, 54°·8 at Regent's Park, 54°·6 at Ventnor, 54°·3 at Ramsgate, and 54°·2 at Norwood and Tunbridge, to 46°·5 at Alston, 48°·9 at Buxton and Stapleton, 49°·3 at Cramlington, 49°·5 at Rounton, 50°·3 at Blackpool and Scaleby, and 50°·4 at Cheadle and Seathwaite. The weather was very fine and dry throughout the month; cold from the 1st to the 7th, and warm from the 8th to the 31st. The maximum temperatures occurred in the North on the 11th, and in the South on the 24th. Temperatures of 80°·0 and above were registered as follows:—On the 11th, 80°·0 at Chester; and on the 24th, 82°·9 at Tunbridge, 82°·6 at Strathfield Turgiss, 81°·0 at Watford, 80°·7 at London, 80°·4 at Isleworth, and 80°·3 at Regent's Park. The minimum temperatures took place on the 1st, 7th, and 21st. The lowest readings were:—On the 1st, 28°·3 at Swarraton, 30°·4 at Harestock and Southampton, and 30°·8 at Cheltenham; on the 7th, 26°·7 at Alston, 29°·4 at Cramlington; on the 19th, 27°·8 at Alston, and 29°·4 at Rounton; on the 20th, 31°·0 at Buxton; on the 21st, 27°·3 at Leaton, 30°·7 at Bridgetown, and 30°·8 at Burghill; and on the 27th, 30°·7 at Hodsock. The mean daily range of temperature was 17°·4.

In *June* the mean temperature was 57°·0, and varied from 60°·2 at Portsmouth, 59°·9 at London, 59°·7 at Teignmouth, 59°·2 at Regent's Park and Ross, 59°·0 at Isleworth, 58°·8 at Ventnor, 58°·7 at Babbacombe and Cardiff, 58°·6 at Ashburton and Burghill, and 58°·5 at Tunbridge, to 51°·9 at Alston, 53°·4 at Buxton and Cramlington, 53°·7 at Rounton, 54°·6 at Stapleton, 55°·0 at Cheadle, 55°·1 at Scarborough, and 55°·2 at Blackpool and Somerleyton. The weather was fine, dry, and cold till the 21st, but warm from the 22nd to the 30th. The maximum temperatures occurred generally on the 28th. The highest readings were:—On the 18th, 88°·5 at Ross; and on the 28th, 84°·2 at Hillington, 83°·2 at Strathfield Turgiss, 83°·0 at Marlborough, 82°·9 at Burghill, 82°·8 at Ross, 82°·6 at Chester, and 82°·5 at Scaleby. The minimum temperatures took place mostly on the 1st. The lowest readings were:—On the 1st, 31°·1 at Swarraton, 32°·3 at Hodsock, 33°·0 at Wakefield, 33°·9 at Leaton, and 34°·2 at Ross and Strathfield Turgiss; on the 4th, 33°·3 at Buxton; and on the 14th, 34°·5 at Stapleton. The mean daily range of temperature was 17°·2.

Atmospheric Pressure was about the average.

In *April* the mean pressure (reduced to sea-level) was 29·85 ins. The variation in the mean readings was slight, the highest being in the North, and the lowest in the South. The maximum occurred on the 13th or 14th, the highest reading being 30·247 ins. at 9 a.m. on the 13th at Scaleby. The minimum took place on the evening of the 4th or morning of the 5th, the lowest reading being 29·000 ins. at 9.45 p.m. on the 4th at Babbacombe.

In *May* the pressure was higher than in the previous month, the mean being 29·98 ins. The highest readings were in the South and the lowest in the North. The maximum occurred generally on the 22nd, the highest reading being 30·466 ins. at 9 a.m. at Margate. The minimum took place on the evening of the 3rd, the lowest reading being 28·978 ins. at 9 p.m. at Scaleby.

In *June* the pressure was above the average, the mean being 30·05 ins. The highest readings were in the West and the lowest in the East. The maximum readings occurred between the 12th and the 15th, the highest being 30·415 ins. at 9 a.m. on the 14th at Llandudno. The minimum took place in the North and West on the 2nd, in the South on the 3rd, and in the South-east on the 7th. The lowest readings were :—29·556 ins. at 9 a.m. on the 2nd at Carmarthen, 29·505 ins. at 9 a.m. on the 3rd at Southbourne, and 29·589 ins. at 9 a.m. on the 7th at Croydon.

RAINFALL was below the average.

In *April* the rainfall was slightly below the average. The monthly amounts varied from 4·02 ins. at Seathwaite, 3·48 ins. at Alston, 2·79 ins. at Ashburton, 2·74 ins. at Stowell, 2·50 ins. at Teignmouth, and 2·48 ins. at Sidmouth, to 0·92 in. at Chester, 0·96 in. at Bolton, 0·97 in. at Throcking, 1·00 in. at Southend, 1·01 in. at Churchstoke, 1·06 in. at South Norwood, and 1·10 in. at St. Michael's-on-Wyre. Rain fell generally from the 2nd to the 7th, 14th to the 16th, and 27th and 28th. The greatest daily falls occurred in the West on the 4th, and in the East on the 6th. Falls of 0·75 in. and above were registered as follows :—On the 4th, 0·97 in. at Falmouth, 0·85 in. at Helston, 0·80 in. at Ashburton, 0·77 in. at Bridgetown, and 0·75 in. at Hastings and Teignmouth ; on the 5th, 1·08 in. at Seathwaite ; and on the 9th, 1·04 in. at Seathwaite. Thunderstorms occurred on the 1st to the 5th, 23rd, 28th, and 29th. Hail fell on the 3rd, 5th, 18th, 17th, 18th, 21st, 22nd, 24th, and 26th to 30th. Snow occurred on the 1st, 5th, 12th, 17th, 18th, 21st to 24th, and 26th.

In *May* the rainfall at most stations was considerably less than in the previous month, especially in the South-east. The monthly falls varied from 17·09 ins. at Seathwaite, 3·53 ins. at Alston, 3·02 ins. at Buxton, 2·94 ins. at Stapleton, 2·38 ins. at Carmarthen, 2·37 ins. at Cardiff, and 2·30 ins. at Bolton, to 0·23 in. at Margate, 0·26 in. at Ramsgate, 0·27 in. at Southend, 0·38 in. at Tunbridge, 0·39 in. at Hastings and Throcking, and 0·50 in. at Worthing. Rain fell generally from the 1st to the 5th, 7th, and 12th to the 14th. Scarcely any rain fell from the 16th to the 31st. At Seathwaite falls exceeding 1 inch occurred on seven occasions between the 1st and the 16th, the heaviest being 6·75 ins. on the 8th. At the other stations falls exceeding 0·75 in. were registered on the 24th as follows :—0·98 in. at Teignmouth, 0·92 in. at Swanage, 0·89 in. at Babbacombe and Torquay, 0·88 in. at Ashburton, and 0·76 in. at Bridgetown. Thunderstorms occurred on the 3rd to the 6th, 12th, 19th and 24th. Hail fell on the 2nd to the 6th, 12th, and the 19th. A little snow occurred on the 3rd, 4th and 6th.

In *June* the rainfall was slightly in excess of, but the number of rainy days were less than in, the preceding month. The monthly falls varied from 4·05 ins. at Ross, 3·82 ins. at Cheltenham, 3·51 ins. at Marlborough, 3·37 ins. at Swanage, and 3·21 ins. at Leaton, to 0·47 in. at Scarborough, 0·54 in. at Scaleby, 0·55 in. at Blackpool, 0·57 in. at Lowestoft, 0·58 in. at Ramsgate, 0·60 in. at St. Michael's-on-Wyre, and 0·68 in. at Cromer. Rain fell generally on the 4th to the 8th, 22nd and 29th. Scarcely any rain fell on the 1st,

and from the 10th to the 21st, and 25th to the 27th. The greatest daily falls occurred between the 5th and the 7th, and on the 28th. Falls of 1·25 in. and above were registered as follows:—On the 5th, 1·42 in. at London, and 1·25 in. at Finchley; on the 6th, 1·69 in. at Stowell; on the 7th, 1·32 in. at Chester; and on the 28th, 1·62 in. at Cheltenham and Ross, 1·48 in. at Sidmouth, 1·42 in. at Stowell, and 1·34 in. at Cullompton. Thunderstorms occurred on the 5th to the 8th, 20th and the 29th. Hail occurred on the 6th.

WIND.—In *April* the general direction of the wind was South from the 1st to 6th, and North-east from the 7th to 29th. Although very few gales occurred, the wind was persistent and strong in force.—In *May* the general direction of the wind was South-west from the 1st to 20th, and North-east from the 21st to 31st.—In *June* the prevalent direction of the wind was North or North-west.

FOG prevailed on *April* 1st to 4th, 7th to 18th, 16th, 21st, 23rd, and 25th to 30th; *May* 6th, 12th, 13th, 18th to 25th, and 31st; *June* 1st to 6th, 8th to 13th, 15th, 16th, 18th to 25th, 26th, and 30th.

HALOS occurred on *April* 2nd to 4th, 6th, 17th, and 30th; *May* 1st, 7th to 10th, 18th, 19th, and 24th; and *June* 2nd, 15th, 21st, and 24th.

RAINFALL AT SEATHWAITE, BORROWDALE, CUMBERLAND.

On May 8th a very heavy fall of rain occurred at Seathwaite, the amount for the twenty-four hours being 6·75 ins. This is (apparently) the greatest fall that has been measured on one day at Seathwaite. The only other occasions of falls exceeding 6 ins. in the twenty-four hours from 1845 to the present time are:—

Year.	Date.	Amount.
		ins.
1846	November.	6·62
1864	December.	6·47
1865	May 30th.	6·41
1865	September 10th.	6·00
1866	November 16th.	6·38
1869	November 13th.	6·70
1884	May 8th.	6·75

"WATER SUPPLY." By BALDWIN LATHAM, M.Inst.C.E., F.R.Met.Soc., F.G.S.

THE quantity of water stored in the great water-bearing strata of England at the present time varies immensely, for while in some parts of the country there is a marked deficiency of water, in others the store is in excess of what it was at a corresponding period last year, when there was generally throughout the country a large store of water in the ground.

In the East and South-east districts of England there is a very marked deficiency of water, and there is likely to be such a dearth of water in these districts as has not been experienced for many years past. The springs in the Chalk and Oolite have long since received their full replenishment, and are now declining, and as they are not likely to be again replenished until we have the winter rains, and will be decreasing for some months to come, we are in a position to gauge the store of water now at our disposal.

From observations which I have been conducting for some years past in various parts of England, I may point out that if a line is drawn North and South through Leicester, in all places near that line the quantity of underground water stored in New Red Sandstone, Oolite, and the Chalk is about equal to its normal quantity at this period of the year; in places to the West of this line there is an increase of water beyond the normal quantity; while in places to the East there is a marked deficiency in the quantity of water stored in the ground. The springs in the Chalk in the North Downs, which furnish the perennial supply of water to the streams of Surrey and Kent, are now at a lower point than they have been at any corresponding period for many years past, and we shall probably have this year a smaller flow in the river Thames than has occurred for a considerable period. At the present time the upper tributaries of the Thames, taking their supply from the Chalk of Wiltshire, contain an abundance of water—more than at the corresponding period last year—but as we pass Eastward towards London, the supplies are of a limited character, and, in all probability, within the area of the river Lea, we shall have this year a lower state of the water than has been recorded for many years past, as within the drainage area of this river and North of it, passing into the oolite districts of Northamptonshire, there is a marked deficiency in the quantity of water stored.

From records of underground water it appears that there is a marked deficiency of water in the ground every ten years—for instance, there was a deficiency in 1854, 1864, 1874, and in all probability this low water will occur again this year. Although it is most marked at the present time in the South-east districts of England, yet from the rapidity with which the springs are now falling in other parts of the country, the evidence all points to a general low state of the water in the autumn of this year.

Whenever the water in the ground has reached a considerable degree of lowness, when replenishment commences, in all places in which the water is liable to pollution we have the conditions which bring about epidemics of typhoid fever; and it therefore behoves all persons who are suspicious of the quality of their water supply to take the precaution to have all water used for dietetic purposes boiled before it is used during such periods as we are now entering upon. By adopting this precaution, much illness and suffering may be prevented.—*Times*, June 7th.

TEMPERATURE OF THE SOIL AT 9 A.M.

Station.	Depth below the Surface.	April.			May.			June.		
		Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.
		°	°	°	°	°	°	°	°	°
Aspley Guise	3 ins.	46·3	51·6	41·5	56·2	62·0	47·7	61·8	70·1	53·9
Babbacombe	6 ins.	48·4	50·8	45·9	55·0	59·8	49·8	61·5	67·0	54·2
Southampton	6 ,,	47·1	51·0	42·8	55·3	61·6	48·0	60·7	67·5	54·4
Marlborough	6 ,,	45·2	50·6	40·4	54·8	60·1	46·1	60·2	66·0	53·8
Croydon	6 ,,	45·0	49·8	40·0	54·3	59·5	46·4	58·7	65·7	53·4
Aspley Guise	6 ,,	46·1	51·8	41·3	55·1	60·8	46·0	61·1	68·4	54·6
Rounton	1 ft.	45·5	47·5	41·5	50·3	54·7	45·0	55·3	60·2	51·5
Hodsock	1 ,,	46·5	49·0	43·0	52·5	57·1	45·7	57·8	62·2	53·8
Strelley	1 ,,	44·6	47·1	42·2	50·4	55·1	44·4	55·9	60·0	52·8
Cardiff	1 ,,	46·1	48·1	43·6	52·0	57·0	47·1	58·6	62·9	54·2
Babbacombe	1 ,,	49·6	51·8	46·8	55·5	59·8	51·1	61·6	66·1	56·2
Cullompton	1 ,,	46·9	48·8	44·6	54·3	59·6	48·0	60·3	65·2	55·2
Southampton	1 ,,	47·9	51·2	45·2	54·9	60·4	48·6	59·6	65·3	56·1
Worthing	1 ,,	48·2	51·5	44·9	55·6	61·0	50·1	60·2	66·0	55·2
Marlborough	1 ,,	46·3	50·3	43·2	55·0	60·8	47·0	60·4	65·1	55·3
Harestock	1 ,,	44·5	47·9	41·6	51·2	56·4	45·0	56·3	62·5	52·1
Croydon	1 ,,	45·8	50·0	41·9	54·2	59·8	46·9	58·5	65·0	54·2
Norwood	1 ,,	45·7	49·6	42·1	53·1	58·2	45·9	57·5	62·2	54·1
Isleworth	1 ,,	46·5	50·9	42·9	53·7	58·7	47·1	59·0	63·7	54·4
Regent's Park	1 ,,	45·4	50·0	42·5	52·9	59·0	44·0	58·7	64·5	53·5
Aspley Guise	1 ,,	46·2	51·2	42·2	54·9	61·1	46·3	61·0	68·2	54·3
Lowestoft	1 ,,	47·2	50·0	44·7	53·4	58·0	46·8	58·3	64·4	54·5
Marlborough	1½ ft.	46·7	49·0	44·1	54·2	59·0	47·2	59·6	64·0	55·7
Marlborough	2 ft.	46·7	48·1	44·6	52·6	56·8	47·1	58·0	62·5	55·3
Harestock	2 ,,	44·8	46·8	43·2	49·6	53·1	44·8	54·5	58·9	52·1
Isleworth	2 ,,	47·2	49·7	45·2	52·9	56·4	47·7	58·1	62·2	54·8
Aspley Guise	2 ,,	47·0	50·2	44·7	54·5	59·2	47·7	60·1	65·7	55·5
Lowestoft	2 ,,	47·2	49·0	45·0	53·2	57·5	47·5	58·2	63·8	55·0
Cardiff	4 ft.	46·4	46·7	45·7	48·9	51·0	46·6	52·8	55·0	51·2
Harestock	4 ,,	45·5	46·1	44·7	47·4	50·1	45·2	51·6	53·7	50·3
Regent's Park	4 ,,	45·4	46·2	44·0	48·8	52·5	45·0	54·6	58·5	52·0
Aspley Guise	4 ,,	46·5	47·8	45·0	51·1	54·7	46·9	56·1	59·7	54·0
Lowestoft	4 ,,	46·6	47·5	45·0	50·4	53·3	47·0	54·8	57·6	53·2

DURATION OF BRIGHT SUNSHINE.

Station.	Total amount.			Greatest amount on one day.			No. of days on which no Sunshine was registered.		
	April.	May.	June.	April.	May.	June.	April.	May.	June.
	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.			
Blackpool	120	179	186	9·2	11·7	13·2	1	4	0
Hodsock	106	201	149	10·7	12·7	13·7	3	5	1
Strelley	100	206	132	10·9	13·4	13·5	3	4	2
Buxton	92	185	192	8·0	13·3	14·0	3	5	3
Churchstoke	120	224	177	10·6	13·5	13·6	3	2	1
Llandudno	162	178	197	9·8	12·5	12·2	3	7	2
Cullompton	120	218	194	11·6	12·8	13·2	2	4	2
Southbourne	110	216	196	10·2	13·3	13·5	4	4	3
St. Leonard's	134	225	179	9·7	13·7	13·8	2	2	3
Marlborough	97	199	149	10·2	13·7	12·3	4	1	2
Harestock	113	219	173	9·3	13·4	13·6	3	0	2
Croydon	103	191	129	10·6	12·9	13·0	1	0	3
Kew	99	208	157	8·5	13·4	13·4	2	3	1
Greenwich	88	184	134	9·3	13·4	11·4	3	3	3
London, Bunhill Row	72	167	122	8·4	12·5	11·0	8	2	2
Aspley Guise	102	215	147	10·8	13·4	13·0	3	3	1
Hillington	145	230	208	11·3	13·5	12·8	1	3	2

Date.	APRIL.											MAY.										JUNE.									
	Max. Temp.				Min. Temp.				Sunshine.			Max. Temp.				Min. Temp.				Sunshine.			Max. Temp.				Min. Temp.				Sunshine.		
	Old Street.	Regent's Park.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Bunhill Row.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Bunhill Row.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Old Street.	Regent's Park.	Greenwich.	Kew.	Bunhill Row.	Greenwich.	Kew.
	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.
1	60·3	61·7	62·5	57·2	45·6	43·6	44·0	43·5	2·3	5·8	1·1	55·9	55·3	57·0	54·3	38·6	36·1	35·6	35·7	1·0	3·4	3·2	64·4	64·4	68·2	65·2	46·0	40·6	42·7	41·1	4·7	5·3	6·9
2	66·9	69·8	68·7	65·3	48·7	47·6	44·8	47·1	8·4	8·7	7·4	55·4	56·3	57·2	54·6	46·5	45·6	45·4	46·6	0·3	0·7	1·7	66·9	67·8	69·5	68·6	48·7	46·6	44·5	43·9	4·5	5·2	5·5
3	64·4	67·8	64·8	63·7	50·7	48·7	46·6	46·6	4·1	5·1	3·9	57·9	57·2	59·8	55·2	50·7	50·0	41·0	44·0	1·7	1·4	1·8	65·1	63·7	64·2	62·2	49·2	47·9	47·4	48·1	0·3	0·2	0·6
4	61·2	61·2	63·4	60·7	45·5	43·6	41·7	42·7	7·1	9·3	8·1	57·1	57·3	58·3	54·8	42·0	41·1	40·3	41·1	8·7	9·2	8·1	59·4	58·7	58·1	59·2	50·7	50·2	50·2	50·3	..	..	..
5	54·9	55·5	56·1	57·2	47·7	47·7	43·7	44·9	..	0·5	1·8	57·0	57·2	58·7	55·7	41·0	39·6	38·8	39·0	3·1	4·9	7·2	62·6	63·0	61·1	61·2	51·9	49·2	48·8	49·2	0·3	..	0·4
6	56·9	57·3	59·9	58·2	47·4	48·7	44·0	45·0	0·6	0·7	1·3	58·9	59·4	60·2	58·1	40·5	38·6	37·4	37·4	8·3	8·5	10·8	55·2	55·3	58·3	58·5	48·2	47·1	46·8	47·9	..	0·1	0·2
7	54·4	55·1	53·7	55·5	47·2	44·1	46·2	46·6	0·3	..	1·1	55·9	55·9	58·2	56·1	41·0	37·8	36·2	36·9	0·8	2·1	3·3	56·9	59·2	59·0	57·1	46·2	45·5	46·0	46·0	0·2	0·5	2·5
8	58·4	61·2	56·3	60·0	44·0	46·6	43·0	41·9	0·8	..	4·6	60·4	60·2	63·1	59·1	47·4	46·6	46·0	46·6	0·5	0·9	0·8	59·4	59·7	60·3	58·8	48·5	45·6	45·9	46·8	0·4	0·4	0·7
9	58·9	58·6	57·6	55·6	47·4	46·6	37·5	41·2	7·6	8·4	8·5	64·5	64·7	68·3	64·7	49·1	47·9	46·5	48·0	3·6	5·4	4·5	57·4	56·5	57·8	57·5	45·6	44·6	45·0	45·3	0·1	..	0·5
10	53·4	54·3	53·1	51·2	39·0	37·7	36·5	37·4	5·4	5·0	6·3	72·9	73·3	75·0	71·9	49·2	45·8	44·5	44·6	11·9	12·2	13·3	64·2	64·2	62·4	62·6	48·8	46·6	47·3	48·2	2·9	1·0	2·0
11	49·9	50·8	52·4	50·2	39·0	38·5	38·8	38·1	1·8	3·9	4·2	77·2	78·3	78·5	75·2	50·7	47·7	45·0	45·3	12·5	13·4	13·4	67·4	66·7	70·2	63·6	50·6	47·7	47·3	46·7	4·8	6·4	4·7
12	51·1	51·3	53·1	49·3	41·0	39·1	36·3	38·1	..	0·7	..	76·9	76·3	78·1	73·3	54·2	49·3	48·3	48·2	9·6	9·8	10·7	75·4	76·3	76·5	72·6	55·2	53·7	53·0	54·3	11·0	8·6	13·4
13	51·6	53·3	52·6	50·6	39·0	35·2	33·1	33·9	3·0	2·5	4·0	67·2	67·3	67·9	68·1	51·0	50·2	50·2	50·0	3·4	3·7	6·9	73·4	75·5	76·6	77·9	53·4	52·7	49·5	51·6	4·0	10·4	11·1
14	52·5	52·3	52·5	50·2	37·7	36·2	35·3	36·5	1·5	1·1	2·7	62·7	62·6	65·8	60·2	49·4	47·7	45·2	46·3	5·0	5·4	6·5	70·4	69·8	70·9	66·2	56·7	56·7	51·0	55·0	9·5	8·0	10·7
15	50·6	50·3	50·2	48·6	40·1	39·6	39·8	40·0	..	..	0·1	60·9	59·4	63·0	59·5	48·7	47·7	46·1	47·2	0·2	0·3	0·3	65·6	65·7	68·4	62·9	50·2	48·2	47·3	48·7	6·5	7·2	6·6
16	48·4	47·8	50·0	47·0	39·1	38·6	37·0	39·1	..	0·1	0·1	69·4	69·3	72·1	67·6	51·7	50·5	52·7	53·2	5·7	6·7	8·2	63·9	66·0	65·4	63·1	53·7	51·2	48·1	51·4	1·3	1·3	1·7
17	44·4	43·9	45·7	43·7	37·3	37·7	35·4	36·9	0·2	0·1	0·5	74·2	74·8	75·2	72·0	51·5	50·7	51·2	51·4	9·8	10·2	10·7	61·8	61·7	65·1	58·7	49·2	48·2	46·5	48·8	3·0	4·6	0·3
18	47·4	45·9	46·3	44·0	35·7	35·5	35·3	35·8	7·3	6·9	5·9	60·6	62·2	61·0	63·2	50·2	48·7	48·0	49·6	1·1	0·4	6·3	61·6	62·8	61·2	62·2	49·2	47·9	47·7	48·7	0·2	0·6	1·1
19	46·4	46·4	46·2	44·6	35·0	32·7	34·7	34·2	1·0	0·5	0·7	61·3	62·2	62·7	58·1	49·5	47·7	45·0	45·8	0·7	0·3	..	68·8	69·3	69·1	68·7	54·2	53·3	52·6	54·2	1·8	1·4	1·8
20	46·2	45·9	49·5	44·6	34·5	34·2	32·1	34·3	1·0	1·2	1·6	63·6	64·7	66·4	63·3	46·0	43·5	42·9	43·4	6·1	6·0	10·8	67·9	68·8	69·6	68·2	54·2	53·6	51·0	54·8	0·7	1·3	1·8
21	49·9	49·5	51·0	48·2	35·1	31·7	30·9	31·0	2·9	4·0	2·4	67·1	68·1	70·8	67·5	45·5	40·1	39·5	37·6	8·5	11·5	11·9	69·6	70·3	70·3	67·4	52·4	51·6	50·7	51·7	5·5	6·5	8·1
22	50·9	48·8	49·1	47·2	32·8	32·7	29·3	31·8	4·4	4·4	5·5	70·7	69·3	70·4	68·0	45·2	42·8	41·3	39·8	11·2	12·1	11·6	70·9	71·3	73·2	69·7	54·7	50·7	50·7	50·9	4·0	5·9	7·3
23	51·4	51·3	52·6	48·7	31·5	31·2	27·0	27·9	5·6	6·2	8·3	77·3	75·8	76·7	73·7	48·7	47·7	44·2	48·5	10·5	11·9	11·6	70·9	69·5	73·1	66·7	57·7	55·7	52·7	55·6	9·3	7·4	10·7
24	49·2	50·8	51·2	47·2	31·2	30·7	28·0	29·6	5·2	4·2	4·9	80·7	80·3	80·5	76·9	51·7	51·6	47·4	47·7	12·0	12·2	12·5	74·4	75·3	77·0	71·2	52·0	50·6	49·3	49·9	4·1	3·8	5·4
25	50·4	49·5	49·7	47·6	34·0	33·9	31·1	33·7	0·6	0·3	0·8	61·4	60·2	56·9	58·1	49·7	48·7	48·5	49·2	..	..	..	73·4	74·8	74·1	72·5	59·2	53·7	54·0	59·1	5·8	3·6	6·9
26	50·4	52·8	53·8	51·0	40·5	38·8	37·4	33·9	..	0·8	2·3	68·4	67·3	68·7	64·4	47·8	45·6	44·2	45·9	10·7	9·8	9·4	78·8	80·3	81·2	78·5	54·5	47·7	47·1	52·1	9·8	11·4	13·2
27	49·4	49·3	53·1	48·8	39·0	36·7	34·7	34·4	..	1·3	..	69·4	68·1	69·5	65·5	44·0	43·4	39·8	42·2	10·7	11·7	11·3	79·8	80·3	82·6	80·1	54·2	53·7	52·0	53·0	5·6	10·4	10·1
28	50·4	49·6	52·4	52·7	40·9	36·7	37·7	35·2	..	1·0	0·6	55·2	53·3	54·9	53·2	43·5	42·6	40·7	42·1	0·1	..	0·4	79·0	78·3	79·0	77·1	56·2	53·7	52·5	55·9	8·7	9·0	8·2
29	54·4	57·7	59·8	59·2	35·1	34·7	33·7	30·6	..	2·9	7·2	58·6	57·3	55·1	53·2	47·3	46·1	42·7	46·2	..	..	..	72·9	73·8	77·1	72·1	57·2	56·7	54·1	56·3	5·3	4·5	4·6
30	57·4	58·0	61·7	56·2	41·5	37·1	37·6	37·0	1·0	2·3	2·6	68·4	66·7	69·0	64·2	44·5	42·6	41·9	43·6	8·3	7·9	8·7	74·4	76·3	78·9	73·6	53·2	51·5	50·8	51·4	7·5	9·3	10·0
31	..	..	..	..	..	..	..	..	..	..	..	57·2	57·4	59·1	56·1	43·2	42·6	40·7	42·1	1·4	1·7	2·2	..	..	..	..	..	..	..	..	..	..	..
Means	53·1	53·6	54·3	52·1	40·1	38·8	37·1	37·6	2·4	2·9	3·3	64·7	64·4	65·7	62·8	47·0	45·3	43·8	44·7	5·4	5·9	6·7	67·7	68·2	69·3	66·8	52·1	50·1	49·1	50·6	4·1	4·5	5·2

NOTE.—At Old Street and Regent's Park the thermometers are read at 9 a.m., the maximum temperature being entered to the previous day; while at Greenwich and Kew the temperatures apply to the civil day. At Old Street and Regent's Park the thermometers are mounted in Stevenson screens; at Greenwich on a Glaisher stand; and at Kew in the thermograph screen.

Abstract of Meteorological Observations for the Month of APRIL, 1884.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of						Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.															
Cramlington	29·871	44·0	40·9	42·5	36·6	49·0	31·2	1	60·2	4	41·7	39·7	82	90	8·1	6·8	1·82	·30	1	24	1	0	15	0	4	25	3	11	6	7	0	4	0
Scaleby	·861	45·4	41·8	43·6	36·6	52·7	29·0	21	65·5	3	43·2	40·7	84	91	8·0	5·3	1·42	·34	29	17	0	2	9	1	10	8	22	2	4	5	2	0	7
Rounton	·869	44·4	41·0	42·7	35·4	49·8	24·5	24	64·8	3	42·6	40·2	86	93	6·9	5·7	2·09	·53	1	21	3	2	8	1	19	9	6	3	10	2	1	4	6
Scarborough..	·868	46·0	43·3	44·7	40·2	49·1	34·8	24, 26	58·1	6	44·1	42·0	86	90	6·6	6·9	1·83	·38	27	19	1	0	9	0	2	27	10	8	6	3	3	1	0
Wakefield....	·866	45·3	43·6	44·5	37·3	51·1	25·2	24	64·6	3	43·5	42·5	86	91	7·6	6·9	1·60	·28	27	19	0	0	13	0	11	17	9	8	5	3	4	3	0
Buxton	·865	42·5	39·2	40·9	33·5	49·4	22·0	23	61·2	3	39·7	37·7	79	87	7·4	5·4	1·99	·46	4	13	3	1	5	1	3	9	22	7	4	10	0	5	0
Cheadle.....	·858	42·7	41·4	42·0	36·0	50·6	29·0	18	62·1	3	40·2	39·7	81	86	7·6	5·6	1·63	·33	1	14	0	0	10	0	7	11	20	7	6	1	1	3	4
Llandudno ..	·847	47·3	45·1	46·2	39·7	50·9	31·2	18	57·6	5	44·0	43·0	76	84	6·2	5·3	1·19	·42	3	11	0	5	8	0	8	12	17	6	5	7	5	0	0
Leaton	·856	45·6	42·2	43·9	35·0	52·4	23·4	23	61·6	3	43·4	41·0	84	90	7·1	6·4	1·32	·40	3	13	0	2	11	..	10	8	22	6	7	2	2	2	1
Churchstoke..	·857	43·5	41·4	42·4	35·5	50·7	26·8	23	61·2	8	40·9	39·6	80	85	7·5	6·4	1·01	·38	4	10	0	0	12	0	4	18	11	10	4	6	0	5	2
Cheltenham...	·833	45·5	42·1	43·8	35·7	52·0	26·0	23	62·5	3	42·9	40·8	81	89	6·9	5·3	1·49	·33	4	15	2	1	7	0	6	9	12	3	10	3	2	7	8
Carmarthen ..	·817	47·8	42·7	45·2	38·1	52·9	29·5	23	58·3	9	43·5	40·2	71	81	6·0	4·4	2·05	·50	2	9	1	6	8	0	5	8	14	4	4	4	1	2	18
Babbacombe..	·827	45·9	43·7	44·8	39·5	50·7	33·2	19	57·5	7	42·6	41·4	77	82	6·5	5·7	2·19	·61	4	9	0	2	11	3	8	21	9	3	6	4	4	3	2
Southbourne	·818	45·8	43·1	44·4	37·0	50·6	27·5	23	56·4	7	42·7	41·0	78	84	5·8	4·2	1·89	·41	28	12	0	6	6	1	11	21	0	6	3	2	2	3	12
Margate	·834	46·7	44·7	45·7	41·3	51·3	34·8	18	65·7	2	43·4	41·8	76	78	7·3	5·9	1·45	·46	27	15	0	1	9	0	8	15	12	10	5	1	3	0	6
Marlborough	·842	44·0	41·1	42·6	35·5	51·0	23·2	23	60·5	3	41·6	39·2	82	84	8·0	5·5	1·51	·34	4	13	0	0	11	0	7	9	20	4	8	2	3	1	6
Strathfield T.	·840	46·7	43·1	44·9	36·0	54·1	23·2	23	65·8	2	43·8	41·2	79	85	7·6	5·1	1·69	·56	6	11	0	0	9	0	4	19	11	2	7	9	4	4	0
Norwood	·840	46·6	43·4	45·0	37·6	53·0	24·8	23	66·6	2	42·7	40·8	73	80	7·4	5·9	1·20	·41	6	17	2	2	10	0	11	15	8	3	9	4	5	2	3
Croydon	·840	46·1	42·6	44·4	37·1	52·4	25·9	23	65·4	2	42·5	40·6	74	85	8·0	5·1	1·32	·47	6	13	2	2	10	0	9	19	7	3	9	3	3	1	6
Hillington.....	·844	47·7	41·1	44·4	35·9	53·6	25·0	26	68·6	2	45·6	40·4	85	94	7·7	6·3	1·42	·38	28	19	1	1	11	0	5	26	7	12	5	1	0	4	0
Lowestoft	·827	46·6	43·0	44·8	39·4	50·0	31·3	26	60·0	3	43·5	40·7	78	82	7·4	6·4	1·27	·43	6	19	1	0	9	1	4	23	9	5	9	2	2	4	2
Londonderry	·859	48·5	43·9	46·2	38·3	54·6	32·0	1	63·9	9	44·7	42·1	74	86	6·5	5·2	1·49	·53	3	13	1	6	10	0	6	6	5	6	16	10	0	4	7
Dublin	·848	47·3	45·7	46·5	40·4	52·4	33·9	1	59·3	7	43·8	42·6	75	78	5·9	4·9	1·53	·86	4	11	1	2	5	0	4	11	14	9	10	3	5	0	4
Killarney	29·808	47·0	44·6	45·8	37·7	52·7	26·7	18	58·8	10	44·3	42·8	80	86	7·5	6·0	1·58	·40	1	12	1	1	8	0	4	11	5	15	3	4	2	1	15
Columns	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

PHENOMENA OBSERVED AT THE STATIONS DURING APRIL, 1884.

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Cramlington	●≡	●≡ψ	●ϟ	●	..	●	●	●	≡	..	●	●	●	●	●	●	●	▲	●	●	●▲	●	●✳ᴛ≡	●	..	..	●	●	●≡	●
Scaleby	●	●ϟ	●ᴛ	●ᴛ	●ϟ	●	..	●	..	..	●	..	●	●	..	..	..	●	●	..	..	●	●	..	..	..	..	●	●	●
Rounton	●ᴛ	..	●ᴛ	●ψ	●	●	●	●	..	..	●	●✳	●	●	●	●	..	●✳	..	●	..	..	●✳	●	..	..	●	●	●▲	●▲
Scarborough	●ᴛ	..	●ϟ	●≡	..	●	●	●	..	..	..	●	●▲	●	●	●	..	●	..	..	..	●	●✳	●▲	..	●	●	..	●	●
Wakefield ..	●	●ϟ	●ϟ	●	●	●	●	●	..	..	●	●	●	●	●	●	..	●	..	..	..	..	●	..	..	..	●	●ᴛ	ᴛ	●
Buxton	●✳	●	●ϟ	●≡	●✳ϟ	●	●	..	..	..	●	✳	●	..	..	●	..	..	..	..	..	..	..	..	..	..	●	●	..	●
Cheadle	●	●	●ᴛ	●	●▲ϟ	●	●	..	..	..	●	..	..	●	..	..	..	..	..	..	●	..	..	..	..	●	●	●▲ϟ	..	●▲
Llandudno ..	●	●	●ϟ	●	●	●	..	..	..	..	●	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	●	●	●	●
Leaton	..	●	●ϟ	●	..	●	●	..	..	..	●	..	..	●	●	●	..	..	..	..	..	..	..	..	..	●	●	●	..	●
Churchstoke	●	●	●▲ϟ	●	●	..	..	..	≡	..	..	..	●▲	..	●	●	..	..	..	..	..	..	..	..	..	..	●	●	..	..
Cheltenham	●	●ᴗ	●	●	●	●ψ	●	..	..	..	..	..	..	●	●	●	✳	✳	..	●	..	..	..	..	..	●	●	●	..	●
Carmarthen	●	●	●	●	●	..	..	..	≡	..	..	..	..	..	●	..	..	..	..	●	..	..	..	..	..	●✳▲	..	..	●	..
Babbacombe	●	●≡	●ψ	●	●▲	○	..	..	..	..	..	..	..	..	..	..	▲○	..	..	..	●	..	..	..	..	●▲	●	..	..	●
Southbourne	..	●	●	●	●	●	●	..	≡	..	..	..	..	..	..	●	●	●	..	..	..	..	●	..	..	..	..	●	●	..
Margate	..	ᴗ	..	●	●ᴗ	●ᴗ	●	..	..	●	..	..	●	●	●	●	▲	..	..	●	..	..	●	●	..	●	●	●	..	..
Marlborough	●	..	●	●	●	●	●	..	..	..	..	..	..	●	●	..	..	..	..	●	●	..	..	..	..	●	●	..	..	●≡
Strathfield T.	..	●	●	●	●	●	..	..	..	..	..	..	●	●	●	..	..	..	..	..	..	..	..	..	..	●	●	●≡	≡	≡
Norwood	..	●ᴗ	●≡	●○	●	●○	●	≡	..	≡	≡	●≡	●▲≡	●	●	●≡	●✳▲	..	..	..	●▲≡	..	≡	●✳▲	≡	●≡	●≡	≡	≡	●≡○
Croydon	..	●ᴗψ	●ᴗ○	●	..	●	≡	≡	≡	..	..	●≡	≡	●	..	●	▲	..	..	..	●✳▲≡	✳▲	..	●	..	●≡	●▲	●	≡	●≡
Hillington ..	..	..	●ᴗ	●	..	●	●	..	●	..	●	●	●▲	●	●	●	..	..	..	●	●✳	▲	●	●	..	●	●	●ᴛ	..	●
Lowestoft ..	●	..	ᴛᴗ	●	●	●	●	..	●	..	..	●	●	●	●	●▲	●▲	..	..	●	..	..	●✳	●	●	●	●	..	ᴛ	●≡
Londonderry	●✳	●	●	●	●	●	..	..	..	..	..	..	..	..	●	..	..	●	●	●	..	..	..	..	●	▲	..	..	●	●▲
Dublin	●✳▲	..	●	●ᴗ	●	..	..	≡	≡	..	≡	..	..	..	..	..	..	●▲	..	●	●	..	..	..	≡	●	●	..	..	●
Killarney ..	●	●	ψ	●	●	●	..	..	..	●ψ	●	..	..	..	..	..	..	..	..	..	..	..	..	..	..	●	●	●ϟ	ϟ	●	●✳

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✳ snow; ▲ hail; ≡ fog; ϟ thunderstorm; ᴛ thunder; ᴗ lightning; ○ solar halo; ψ lunar halo; Ш aurora.

Abstract of Meteorological Observations for the Month of MAY, 1884.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of						Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.															
Cramlington..	29·913	51·1	46·8	48·9	41·0	57·6	29·4	7	74·8	11	47·5	45·1	76	87	7·3	5·9	·89	·28	4	12	2	1	10	9	0	12	4	4	1	14	15	12	0
Scaleby	·906	52·0	47·1	49·5	41·4	59·3	32·5	7	77·0	23	..	..	..	..	7·0	5·7	2·00	·47	8	13	0	4	12	3	1	3	13	3	1	31	0	1	9
Rounton	·942	51·8	47·3	49·5	40·7	58·4	29·4	19	74·8	11	48·4	45·6	77	87	5·2	4·5	·53	·11	1, 12	11	0	8	4	2	4	7	1	2	4	19	7	10	8
Scarborough..	·942	52·5	49·8	51·1	44·7	57·5	37·1	7	73·4	11	48·5	47·4	74	83	5·9	6·1	·71	·15	12	14	0	4	11	0	3	13	1	7	3	8	18	8	1
Wakefield	·961	53·7	49·9	51·8	42·6	60·7	33·3	21	78·4	11	49·3	47·7	72	84	6·0	4·9	1·42	·49	3	10	1	5	8	0	4	7	8	2	8	14	17	2	0
Buxton	·973	51·2	45·8	48·5	39·6	58·2	31·0	20	75·6	11	46·4	43·8	69	85	6·3	5·1	3·02	·68	1	9	0	4	7	0	0	2	16	2	2	18	15	7	0
Cheadle	·977	50·5	49·2	49·9	42·0	58·8	34·4	1	74·3	11	46·5	46·0	74	78	5·6	4·6	1·41	·42	2	9	0	7	6	2	3	2	16	4	4	12	11	9	1
Llandudno ..	·954	53·5	51·0	52·2	46·0	58·4	40·0	3, 7	75·2	11	48·9	47·7	71	78	6·1	4·9	1·35	·50	14	7	0	7	11	1	1	3	14	1	3	17	18	5	0
Leaton	·988	54·6	49·2	51·9	41·2	61·2	29·3	21	78·0	11	..	..	..	..	6·3	4·9	·77	·15	3	10	0	6	9	..	..	..	..	..	..	..	..	..	..	..
Churchstoke..	·998	52·3	48·5	50·4	40·7	60·3	31·5	21	77·1	11	47·8	45·8	71	80	6·7	5·9	1·08	·45	2	8	0	3	12	0	0	3	2	14	2	18	17	3	3
Cheltenham ..	·993	54·5	51·1	52·8	42·2	62·1	30·8	1	78·0	24	..	..	..	..	6·0	5·5	·80	·19	2	11	0	4	9	0	2	14	1	1	8	16	15	3	2
Carmarthen ..	29·983	54·5	49·0	51·8	43·5	59·6	34·3	1, 21	76·9	24	49·4	46·8	69	84	6·5	4·6	2·38	·61	24	15	0	6	10	1	0	4	10	0	4	16	8	4	16
Babbacombe..	30·033	53·5	49·9	51·7	45·5	59·1	37·1	21	72·2	11	49·3	47·4	73	83	6·6	5·0	1·53	·89	24	10	0	5	10	3	6	17	4	0	4	12	13	5	1
Southbourne	·017	55·1	51·3	53·2	45·0	60·1	36·8	22	71·9	24	50·4	48·3	71	80	4·6	3·8	1·02	·46	24	7	0	12	5	0	5	16	0	2	1	19	7	7	5
Margate	·018	55·4	51·0	53·2	46·4	60·2	37·8	7	74·8	17	51·0	48·5	73	83	4·8	4·1	·23	·07	19	8	0	10	7	0	5	13	7	2	4	13	10	1	7
Marlborough	·017	54·6	50·3	52·4	42·1	62·4	33·0	1, 21	78·4	24	49·9	47·5	71	81	6·4	4·7	1·13	·36	7	11	0	8	9	0	3	7	15	1	3	12	15	4	2
Strathfield T.	·021	56·1	51·7	53·9	42·3	65·1	32·7	1	82·6	24	51·4	48·4	71	78	6·1	4·1	·74	·17	5	8	0	9	10	0	8	7	6	4	2	20	10	5	0
Norwood	·015	56·3	50·8	53·6	44·4	64·1	36·0	1	79·6	24	50·8	47·9	67	80	5·7	4·1	·91	·27	5	9	0	11	8	0	1	5	17	0	3	8	20	2	6
Croydon	30·015	56·0	50·6	53·3	44·0	63·1	36·9	1	78·4	24	50·5	47·6	67	80	5·7	4·1	·56	·26	5	10	0	11	8	0	3	17	5	1	3	19	7	3	4
Hillington....	29·982	56·2	49·1	52·6	42·5	63·1	31·2	7	78·3	11	53·5	48·1	82	93	6·4	6·1	1·14	·45	2	9	0	4	14	4	2	18	5	6	1	18	5	7	0
Lowestoft	·974	54·2	50·1	52·1	..	59·3	..	..	71·0	9, 10, 16	50·4	48·1	76	86	5·3	5·3	1·16	·29	2, 6	11	0	8	9	0	1	14	8	3	2	6	21	4	3
Londonderry	·898	53·8	49·1	51·5	43·3	59·5	35·3	7	74·4	24	49·1	47·0	71	85	6·6	5·0	3·51	·70	8	18	1	6	12	0	6	2	9	4	14	13	8	5	1
Dublin	·940	53·9	51·0	52·5	45·6	59·5	37·2	6	69·4	11	49·4	47·9	72	79	6·7	4·3	1·35	·26	14	16	0	4	7	3	0	4	12	4	4	16	11	7	4
Killarney	29·943	54·1	50·5	52·3	44·5	59·5	34·5	20	73·7	24	51·1	48·6	81	87	7·2	6·5	3·86	·64	8	18	0	3	13	5	2	3	7	6	4	14	12	5	9
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

PHENOMENA OBSERVED AT THE STATIONS DURING MAY, 1884.

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Cramlington	●	●▲	●✳▲	●✳▲	●ϟ	●▲T	●	●	..	..	..	..	●	●	●	..	..	..	..	..	..	..	..	●≡	≡	..	..	..	..	..	..
Scaleby	●	●	●▲ϟ	●▲T	●▲T	T	●	●	●	..	..	..	●	●	●	●	..	..	●▲ϟ	..	..	..	..	..	..	..	..	..	..	..	..
Rounton	●	●	●	●	●T	●▲	●	..	..	..	..	●	..	●	●	..	..	..	●	..	..	..	..	..	..	..	..	..	..	..	..
Scarborough	●	●	●	●	●ϟ	●	●	●	..	..	..	●	..	●	●	..	..	..	●	●	..	..	..	●≡	..	..	..	..	..	..	..
Wakefield	●	●	●	●	●	✳	●	..	..	..	..	●	..	●	..	..	..	..	●	..	..	..	..	..	..	..	..	..	..	..	..
Buxton	●	●	●	●▲	▲	..	●	..	..	..	..	●	●	●	●	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cheadle	●	●	●	●▲	●▲	..	●	..	..	..	..	●	..	●	●	..	..	..	ϟ	..	..	..	ϟ	..	..	..	..	..	..	..	..
Llandudno	●	●	●	●▲ϟ	..	..	..	..	..	..	..	..	●	●	●	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Leaton	●	●	●	●	●	●▲	●	..	..	..	..	..	●	●	●	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Churchstoke	●	●	●	●	●	..	..	..	..	..	..	●	..	..	●	..	..	..	..	..	..	..	..	..	●	..	..	..	..	..	..
Cheltenham	●	●	●	●	●▲ϟ	..	●	..	..	..	..	●	●	●	..	..	..	..	●	..	..	..	..	ϟ	●	..	..	..	..	..	..
Carmarthen	●	●	●	●	●	..	●	●	●	..	..	●	●	●	●	●	..	..	..	..	..	..	..	●ϟ	●	..	..	..	..	..	..
Babbacombe	●○	●	●	●	●▲	●ϟ	●	..	..	≡	..	●Tϟ	●	..	..	..	..	..	..	..	..	..	..	●ϟ○	≡	..	..	..	..	..	..
Southbourne-on-Sea	●	●	..	●	▲ϟ	●	..	..	..	..	..	..	●	..	..	..	●	..	..	..	..	..	..	●ϟ	..	..	..	..	..	..	..
Margate	..	..	●	●ϟ	●ϟ	●	●	..	Ψ	..	..	●ϟ	..	●	..	..	..	..	●	..	..	..	..	ϟ	..	..	..	..	..	..	..
Marlborough	●	●	●	●	●T	≡	●	..	Ψ	..	..	●≡T	●	●	..	..	..	..	..	..	..	..	..	●	●	..	..	..	..	..	..
Strathfield Turgiss	●	●	●	●	●▲ϟ	..	●	..	..	..	..	●Tϟ	..	●	..	..	..	..	..	≡	..	≡	..	ϟ	..	..	..	..	..	..	..
Norwood	..	●	●	●▲	●▲ϟ	..	●○	Ψ	○Ψ	○	..	●▲≡ϟ	≡	●	..	..	●	≡○	≡○	..	≡	≡	≡	≡ϟ	●	..	..	..	..	..	≡
Croydon	..	●	●	●T	●▲ϟ	●	●	..	Ψ	..	..	●▲ϟ≡	≡	●	..	..	●	..	..	..	.	..	..	ϟ	●	..	..	..	..	..	..
Hillington	●	●	●	●▲T	●ϟ	●	●	..	..	..	..	●ϟ	..	..	●	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lowestoft	●	●	●	●	●▲	●▲ϟ	●	..	..	..	..	ϟ	●	..	●	..	..	..	..	●	..	..	..	..	..	..	..	..	..	..	..
Londonderry	●	●	●✳▲	●▲	●	●	●	●	●	●	..	..	●	●	●	●	●	●	●	●▲	..	..	..	..	..	..	..	..	..	..	..
Dublin	●	●	●▲	●▲T	●▲	●▲	●	●	●	..	..	○	●	●	..	..	..	●▲	●▲T	..	○	..	○	●ϟ	●	●	..	..	..	..	..
Killarney	●	●	●▲	●	●	●Ψ	●	●	●	..	..	●▲	●	●	●	●	●	●	●	●	..	..	..	..	..	..	..	..	..	..	..

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✳ snow; ▲ hail ≡ fog; ϟ thunderstorm; T thunder; ϟ lightning; ○ solar halo; Ψ lunar halo; Ψ aurora.

Abstract of Meteorological Observations for the Month of JUNE, 1884.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of					Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.															
Cramlington	30·035	55·9	51·5	53·7	45·4	61·3	36·0	1	77·8	28	52·4	50·1	78	90	7·5	7·0	1·37	·33	6	8	0	0	13	0	5	17	1	9	2	7	7	12	0
Scaleby.....	·028	57·9	54·1	56·0	46·5	66·1	37·0	14	82·5	28	54·8	52·1	81	86	7·1	6·4	·54	·15	4	8	0	2	13	0	4	5	3	3	1	11	15	2	16
Rounton	·044	55·9	52·5	54·2	44·8	62·5	34·9	1	76·0	27	52·2	50·5	77	86	6·1	6·1	1·22	·48	6	13	0	3	10	0	13	5	1	6	3	11	2	9	10
Scarborough	·037	57·3	53·1	55·2	49·1	61·0	40·0	1	78·7	13	53·1	51·1	75	86	5·5	6·3	·47	·20	8	9	0	3	10	0	17	6	3	5	3	5	8	2	11
Wakefield....	·045	57·8	55·1	56·4	47·0	65·4	33·0	1	79·4	28	53·9	52·8	76	85	6·7	5·9	·97	·40	7	8	0	4	12	0	11	5	6	6	3	6	15	8	0
Buxton	·052	56·2	51·4	53·8	43·9	62·9	33·8	4	76·2	28	51·7	49·1	72	84	6·9	5·2	2·07	·90	7	9	0	1	7	0	1	3	6	4	2	5	12	25	2
Cheadle.	·056	55·1	53·4	54·2	46·5	63·5	39·9	1	77·9	28	51·7	50·4	78	80	6·4	5·3	2·06	·76	5	8	0	2	6	0	20	2	7	3	4	3	5	13	3
Llandudno ..	·064	58·5	54·9	56·7	50·0	63·0	41·5	10	81·0	28	53·9	51·9	73	81	6·4	6·7	1·18	·70	28	6	0	2	9	0	9	7	1	0	2	7	19	15	0
Leaton	..	58·9	54·3	56·6	45·0	66·6	33·9	1	81·0	28	..	..	..	..	..	..	3·21	1·07	7	11	0	..	..	..	..	..	..	..	..	..	..	..	..
Churchstoke..	·075	57·1	53·7	55·4	45·2	65·3	34·6	10	79·5	28	52·7	51·3	73	84	6·6	6·0	2·04	·77	28	9	0	2	11	0	10	2	2	4	2	5	10	23	2
Cheltenham ..	·051	58·5	56·1	57·3	47·0	67·0	34·5	1	81·1	28	55·1	54·4	79	89	6·5	6·2	3·82	1·62	28	10	0	3	9	0	9	0	1	5	5	3	12	17	8
Carmarthen ..	·071	59·9	53·8	56·8	48·7	65·0	36·8	10	75·8	19	54·4	51·2	69	83	6·2	5·6	1·57	·63	28	9	0	4	8	0	17	1	2	0	3	8	8	2	19
Babbacombe..	·085	61·0	55·5	58·2	50·6	66·8	41·0	7	76·9	13	55·1	52·1	67	78	5·6	5·0	1·48	·55	28	9	0	5	7	0	7	12	3	1	4	4	10	17	2
Southbourne	·052	59·0	55·7	57·4	50·0	64·3	42·0	1	72·8	25	54·8	53·4	75	85	5·4	5·7	2·76	1·04	28	6	0	5	8	0	17	2	0	4	4	10	4	12	7
Margate	·047	57·8	54·3	56·1	50·4	63·3	44·7	2	73·0	29	53·9	52·2	76	86	5·8	3·9	·86	·39	5	7	0	7	6	0	11	4	10	5	5	6	3	6	10
Marlborough	·060	59·1	55·4	57·3	48·0	66·7	35·4	1	83·0	28	54·9	53·4	75	87	7·9	5·9	3·51	1·14	28	10	0	2	13	0	17	5	3	1	2	5	8	5	14
Strathfield T.	·058	59·7	56·6	58·2	48·1	68·8	34·2	1	83·2	28	55·6	54·3	76	85	6·7	7·1	2·61	·95	6	8	0	3	14	0	21	5	4	3	3	9	4	8	3
Norwood	·050	58·9	56·3	57·6	49·6	67·1	40·5	1	80·4	27	54·1	53·2	72	80	6·8	6·1	2·18	·98	5	9	0	4	15	0	15	3	9	0	4	2	13	4	10
Croydon	·049	58·4	55·6	57·0	48·8	66·1	41·7	1	79·0	27	53·7	53·0	73	83	7·1	6·3	1·90	1·01	5	9	0	4	14	0	12	8	4	3	4	6	5	7	11
Hillington ..	·038	59·8	52·7	56·3	46·0	68·0	39·1	26	84·2	28	..	..	..	..	7·1	7·0	1·16	·49	8	8	0	1	11	0	15	14	5	7	2	6	6	5	0
Lowestoft	·024	57·8	52·8	55·3	..	61·8	..	..	76·0	28	54·4	51·6	79	92	5·4	5·0	·57	·31	7	7	0	7	8	0	13	11	7	4	1	6	4	11	3
Londonderry	·074	57·8	53·3	55·5	47·9	63·8	40·0	10	81·1	28	53·2	51·1	73	85	8·6	7·8	1·33	·32	1	15	0	0	18	0	10	6	4	2	11	6	8	13	0
Dublin	·083	58·9	56·6	57·7	50·7	65·0	43·1	8	75·4	13	53·4	53·3	68	79	6·6	6·8	1·25	·55	3	10	0	2	10	0	8	1	8	2	0	7	19	11	4
Killarney	30·115	57·2	53·2	55·2	45·2	63·5	34·9	3	72·0	21	53·8	51·9	79	91	6·6	7·0	1·20	·30	1, 27	8	0	2	9	0	7	4	1	1	0	1	5	17	24
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

Phenomena observed at the Stations during JUNE, 1884.

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Cramlington	..	≡	≡	≡	●≡	●▲≡	●	●	●	⊤	..	≡	≡	..	..	●	..	..	≡	..	≡	●	..	●	..	..	..	..	..	≡
Scaleby	..	..	..	●	●	●	⊤	●	..	●	..	..	●	..	..	..	..	..	..	..	..	..	..	●	..	..	..	..	●	..
Rounton	..	..	..	●	●	●⊼	●	●	●	..	..	..	..	..	..	●	●	..	●	..	..	●	●	●	..	..	..	..	..	●
Scarborough	..	..	..	..	●	●⊤	●	●	..	..	..	..	..	..	●	..	●	..	..	..	..	●	..	●	..	..	..	..	..	●
Wakefield	..	..	..	..	●	●	●	●	..	..	..	..	..	..	..	●	..	..	●	..	..	●	..	..	..	..	..	..	●	..
Buxton	..	..	..	..	●⊼	●	●⊼	●	●	..	..	..	..	..	..	●	..	..	..	..	..	..	..	●	..	..	..	..	●	●
Cheadle	..	..	..	..	●⊤	●⊤	●	●	..	..	..	..	..	..	..	●	●	..	..	..	..	..	..	..	..	..	..	●⊼	●	..
Llandudno	..	●	..	..	..	..	..	..	..	..	..	..	●	..	..	..	..	..	..	..	..	..	..	●	..	..	..	●⊤	●	●
Leaton	..	..	..	●	●	●	●⊼	●	●	..	..	..	..	..	..	..	..	..	..	..	..	●	..	●	..	..	..	●	●	●
Churchstoke	..	..	..	●	●	●	●	●	..	..	..	..	..	..	..	..	..	..	..	..	..	●	..	●	..	..	..	●	●	..
Cheltenham	..	●	..	●	●	●	●⊼	●	●	..	..	..	..	..	..	..	..	..	..	..	..	●	..	..	..	..	..	●	●⊼	..
Carmarthen	●	●	●	●	●	●▲⊤	..	..	..	●	..	≡	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	●	●	..
Babbacombe	..	●	●	●	●	●	●	..	..	..	≡	..	..	..	○	..	..	..	..	..	..	●	..	..	..	..	..	●⊼	●⊤⊀	..
Southbourne-on-Sea	..	..	..	●	..	●	●⊼	●⊼	..	..	..	..	..	..	..	..	..	..	..	..	..	●	..	..	..	..	..	●⊼	..	..
Margate	..	..	●	..	●	●	..	●	●	..	..	..	..	..	..	..	..	..	..	..	○	●	..	○	●	..	..	..	..	..
Marlborough	..	..	●	●	●	●	●	●	..	..	≡	≡	..	..	..	..	..	..	..	..	●	●	..	..	..	..	..	●	●⊼	..
Strathfield Turgiss	..	..	●	●≡	●⊤	●⊼	●⊤	●⊤	..	..	..	..	..	..	..	..	..	..	..	≡	..	●	..	..	..	..	..	●	⊼	..
Norwood	≡	○	●	●	●⊼	●≡	●	●≡	●≡	≡	..	≡	..	..	≡	≡	..	≡	≡	≡	≡	●≡	≡	..	≡	..	..	●	..	≡
Croydon	..	ψ	●	●≡	●⊼	●▲	..	●⊼	●	..	..	..	..	..	..	..	..	..	..	⊤	..	●	..	..	●	≡	..	..	●⊼	..
Hillington	..	ψ	..	..	●⊤	●⊤	●	●	●	..	..	..	..	..	..	..	●	..	..	..	..	●	..	..	..	..	..	..	..	●
Lowestoft	..	..	..	..	●	●	●	●	●	..	..	..	..	..	..	●	..	●	..	..	..	..	..	..	..	..	..	..	..	..
Londonderry	●	..	●	..	●	●	●	..	●	●	..	●	●	..	..	..	..	..	..	..	..	..	..	●	●	●	..	●	●	●
Dublin	◍	..	●⊀	●	●	●▲	◍	..	..	..	..	..	●	..	..	..	..	..	..	..	..	..	..	..	..	..	..	◍⊀	●	●⊤
Killarney	●	◍	..	●	◍	◍	●	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	◍	●	..	..

Explanation of the Symbols.—● indicates rain; ✱ snow; ▲ hail; ≡ fog; ⊼ thunderstorm; ⊤ thunder; ⊀ lightning; ○ solar halo; ψ lunar halo; Ψ aurora.

Station.	9 a.m. Temperature.	9 a.m. Humidity.	Means. Min.	Means. Max.	Means. Range.	Means. Mean.	Extremes in Month. Min.	Extremes in Month. Max.	Extremes in Month. Range.	Mean Amount of Cloud at 9 a.m.	Amount.	No. of Days.	9 a.m. Temperature.	9 a.m. Humidity.	Means. Min.	Means. Max.	Means. Range.	Means. Mean.	Extremes in Month. Min.	Extremes in Month. Max.	Extremes in Month. Range.	Mean Amount of Cloud at 9 a.m.	Amount.	No. of Days.	9 a.m. Temperature.	9 a.m. Humidity.	Means. Min.	Means. Max.	Means. Range.	Means. Mean.	Extremes in Month. Min.	Extremes in Month. Max.	Extremes in Month. Range.	Mean Amount of Cloud at 9 a.m.	Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°	..	In.		°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.	
Cramlington .	44·0	82	36·6	49·0	12·4	42·8	31·2	60·2	29·0	8·1	1·82	24	51·1	76	41·0	57·6	16·6	49·3	29·4	74·8	45·4	7·3	·89	12	55·9	78	45·4	61·3	15·9	53·4	36·0	77·8	41·8	7·5	1·37	8
Stapleton	45·0	80	36·0	51·6	15·6	43·8	29·5	62·5	33·0	7·6	1·74	18	50·9	77	40·6	57·2	16·6	48·9	30·0	74·9	44·9	7·7	2·94	15	57·2	76	45·1	64·1	19·0	54·6	34·5	81·7	47·2	7·6	·86	9
Scaleby	45·4	84	36·6	52·7	16·1	44·7	29·0	65·5	36·5	8·0	1·42	17	52·0	..	41·4	59·3	17·9	50·3	32·5	77·0	44·5	7·0	2·00	13	57·9	81	46·5	66·1	19·6	56·3	37·0	82·5	45·5	7·1	·54	8
Alston	41·9	80	31·8	48·4	16·6	40·1	21·5	62·8	41·3	7·9	3·48	23	48·6	76	37·0	56·0	19·0	46·5	26·7	75·6	48·9	6·9	3·53	14	55·5	72	40·8	63·0	22·2	51·9	28·1	77·1	49·0	6·0	1·05	12
Seathwaite ..	44·8	74	37·3	51·4	14·1	44·4	28·8	63·0	34·2	7·1	4·02	19	51·1	69	42·8	58·0	15·2	50·4	31·8	75·2	43·4	6·6	17·09	15	57·5	67	47·9	64·0	16·1	55·9	39·4	81·1	41·7	6·9	1·43	11
St. Mich.-on-Wyre	46·9	74	36·3	53·8	17·5	45·0	28·3	63·0	34·7	7·7	1·10	15	53·4	69	42·1	60·2	18·1	51·2	33·2	78·0	44·8	6·5	2·14	13	59·5	68	46·0	66·0	20·0	56·0	35·6	81·6	46·0	7·0	·60	5
Blackpool	46·6	78	36·3	51·6	15·3	44·0	27·5	62·6	35·1	5·9	1·28	17	52·5	72	42·8	57·9	15·1	50·3	34·9	75·7	40·8	5·7	1·73	11	58·1	73	47·9	62·4	14·5	55·2	37·8	81·1	43·3	5·0	·55	7
Bolton	44·2	78	36·6	50·8	14·2	43·7	29·0	62·8	33·8	7·7	·96	15	51·5	73	42·3	59·3	17·0	50·8	33·9	76·1	42·2	6·8	2·30	11	56·9	73	47·1	64·0	16·9	55·6	38·5	80·2	41·7	6·9	·78	7
Rounton	44·4	86	35·4	49·8	14·4	42·6	24·5	64·8	40·3	6·9	2·09	21	51·8	77	40·7	58·4	17·7	49·5	29·4	74·8	45·4	5·2	·53	11	55·9	77	44·8	62·5	17·7	53·7	34·9	76·0	41·1	6·1	1·22	13
Scarborough ..	46·0	86	40·2	49·1	8·9	44·6	34·8	58·1	23·3	6·6	1·83	19	52·5	74	44·7	57·5	12·8	51·1	37·1	73·4	36·3	5·9	·71	14	57·3	75	49·1	61·0	11·9	55·1	40·0	78·7	38·7	5·5	·47	9
Wakefield	45·3	86	37·3	51·1	13·8	44·2	25·2	64·6	39·4	7·6	1·60	19	53·7	72	42·6	60·7	18·1	51·7	33·3	78·4	45·1	6·0	1·42	10	57·8	76	47·0	65·4	18·4	56·2	33·0	79·4	46·4	6·7	·97	8
Hodsock	45·7	77	36·2	51·7	15·5	43·9	23·6	64·9	41·3	7·1	1·78	19	54·1	66	41·6	61·3	19·7	51·5	30·7	77·0	46·3	5·6	·84	10	59·1	69	45·7	66·3	20·6	56·0	32·3	80·7	48·4	6·5	·77	6
Strelley	44·3	81	36·3	51·1	14·8	43·7	26·7	64·1	37·4	7·2	1·76	18	53·1	71	42·2	60·9	18·7	51·6	32·9	76·9	44·0	5·2	·89	10	57·9	76	46·7	66·2	19·5	56·4	35·2	80·9	45·7	6·5	·90	9
Belper	43·9	82	37·0	50·8	13·8	43·9	26·7	63·5	36·8	5·0	2·46	17	52·3	74	42·8	60·3	17·5	51·5	32·9	76·1	43·2	3·6	1·34	9	56·8	74	47·5	64·7	17·2	56·1	34·3	77·9	43·6	3·0	1·30	9
Cheadle	42·7	81	36·0	50·6	14·6	43·3	29·0	62·1	33·1	7·6	1·63	14	50·5	74	42·0	58·8	16·8	50·4	34·4	74·3	39·9	5·6	1·41	9	55·1	78	46·5	63·5	17·0	55·0	39·9	77·9	38·0	6·4	2·06	8
Oakamoor	..	..	..	..	..	..	..	..	..	8·8	1·50	11	..	..	..	..	..	..	..	..	..	6·5	1·45	8	..	..	..	..	..	..	..	..	..	8·0	2·63	8
Buxton	42·5	79	33·5	49·4	15·9	41·4	22·0	61·2	39·2	7·4	1·99	13	51·2	69	39·6	58·2	18·6	48·9	31·0	75·6	44·6	6·3	3·02	9	56·2	72	43·9	62·9	19·0	53·4	33·8	76·2	42·4	6·9	2·07	9
Macclesfield ..	43·8	84	36·3	50·4	14·1	43·4	28·7	63·3	34·6	7·1	1·24	12	51·8	71	42·5	59·2	16·7	50·8	34·3	76·1	41·8	6·3	2·23	8	56·0	75	46·7	64·2	17·5	55·5	39·0	79·1	40·1	6·1	1·31	6
Chester	46·8	73	38·4	53·4	15·0	45·9	28·4	62·6	34·2	8·5	·92	10	54·9	65	43·8	62·3	18·5	53·1	34·9	80·0	45·1	7·0	·94	8	60·2	67	48·5	67·1	18·6	57·8	39·0	82·6	43·6	7·3	2·06	6
Leaton	45·6	84	35·0	52·4	17·4	43·7	23·4	61·6	38·2	7·1	1·32	13	54·6	..	41·2	61·2	20·0	51·2	29·3	78·0	48·7	6·3	·77	10	58·9	..	45·0	66·6	21·6	55·8	33·9	81·0	47·1	..	3·21	11
Churchstoke ...	43·5	80	35·5	50·7	15·2	43·1	26·8	61·2	34·4	7·5	1·01	10	52·3	71	40·7	60·3	19·6	50·5	31·5	77·1	45·6	6·7	1·08	8	57·1	73	45·2	65·3	20·1	55·3	34·6	79·5	44·9	6·6	2·04	9
Kenilworth ...	44·1	80	36·4	51·1	14·7	43·8	26·0	63·0	37·0	7·4	1·96	14	54·0	68	42·3	61·2	18·9	51·7	34·1	75·9	41·8	5·0	1·37	10	58·3	73	47·2	66·1	18·9	56·7	35·7	79·8	44·1	6·5	2·01	12
Burghill	46·0	78	37·1	53·4	16·3	45·3	25·6	61·9	36·3	7·8	1·33	12	55·5	70	42·2	64·4	22·2	53·3	30·8	78·2	47·4	5·9	·52	7	61·0	70	47·8	69·4	21·6	58·6	34·4	82·9	48·5	6·3	2·82	7
Ross	46·0	76	36·9	53·9	17·0	45·4	26·0	62·8	36·8	7·7	1·43	12	56·0	64	42·2	64·0	21·8	53·1	31·5	79·8	48·3	4·5	·57	11	61·4	67	48·1	70·3	22·2	59·2	34·2	83·5	49·3	5·2	4·05	9
Cheltenham	45·5	81	35·7	52·0	16·3	43·9	26·0	62·5	36·5	6·9	1·49	15	54·5	..	42·2	62·1	19·9	52·1	30·8	78·0	47·2	6·0	·80	11	58·5	79	47·0	67·0	20·0	57·0	34·5	81·1	46·6	6·5	3·82	10

Station.	APRIL.												MAY.												JUNE.											
	Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.								Rain.	
			Means.				Extremes in Month.								Means.				Extremes in Month.								Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.	
Llandudno	47·3	76	39·7	50·9	11·2	45·3	31·2	57·6	26·4	6·2	1·19	11	53·5	71	46·0	58·4	12·4	52·2	40·0	75·2	35·2	6·1	1·35	7	58·5	73	50·0	63·0	13·0	56·5	41·5	81·0	39·5	6·4	1·18	6
Carmarthen ..	47·8	71	38·1	52·9	14·8	45·5	29·5	58·3	28·8	6·0	2·05	9	54·5	69	43·5	59·6	16·1	51·5	34·3	76·9	42·6	6·5	2·38	15	59·9	69	48·7	65·0	16·3	56·9	36·8	75·8	39·0	6·2	1·57	9
Cardiff.....	45·6	79	39·7	51·5	11·8	45·6	33·9	58·2	24·3	..	1·56	11	54·0	75	45·0	60·7	15·7	52·9	36·5	76·0	39·5	..	2·37	14	60·2	71	50·4	67·0	16·6	58·7	41·2	79·7	38·5	..	1·92	9
Weston-s-Mare	46·5	78	40·3	52·3	12·0	46·3	32·0	59·2	27·2	6·6	1·67	10	54·0	76	46·4	60·6	14·2	53·5	40·4	78·5	38·1	5·2	1·49	10	59·6	75	52·1	64·7	12·6	58·4	46·0	81·9	35·9	5·9	2·11	7
Ilfracombe ..	47·3	79	42·4	51·0	8·6	46·7	33·3	57·0	23·7	6·6	1·57	12	53·8	84	48·0	59·1	11·1	53·6	41·3	73·5	32·2	5·3	1·14	11	57·8	84	52·8	61·9	9·1	57·3	48·3	73·5	25·2	5·7	1·00	6
Bude	47·0	83	38·5	53·4	14·9	45·9	28·6	58·0	29·4	4·7	1·86	7	54·4	81	45·7	60·5	14·8	53·1	33·1	79·4	46·3	5·3	1·25	9	56·9	89	48·6	61·9	13·3	55·3	39·1	70·8	31·7	5·9	·77	8
Helston	..	..	..	..	..	..	..	..	..	6·2	2·05	7	..	..	..	..	..	..	..	..	..	6·9	1·12	11	..	..	..	..	..	..	..	..	..	6·7	1·37	15
Falmouth	48·4	73	41·8	51·6	9·8	46·7	36·1	56·7	20·6	6·6	1·94	13	54·0	75	47·9	58·1	10·2	53·0	40·4	64·8	24·4	6·3	1·36	11	59·8	76	51·4	64·6	13·2	58·0	43·2	73·4	30·2	6·0	1·35	10
Maker	46·9	75	39·8	52·2	12·4	46·0	32·0	61·0	29·0	5·1	1·50	14	53·1	81	46·3	59·8	13·5	53·1	37·5	73·0	35·5	5·5	1·16	12	59·2	78	50·0	66·4	16·4	58·2	42·5	76·5	34·0	5·6	·97	9
Ashburton	46·9	84	38·8	51·5	12·7	45·2	31·3	60·8	29·5	..	2·79	14	53·6	83	45·1	60·7	15·6	52·9	38·4	71·1	32·7	5·6	2·12	9	60·3	77	50·3	66·9	16·6	58·6	40·8	75·3	34·5	5·4	1·31	9
Bridgetown....	48·6	73	35·9	54·9	19·0	45·4	27·8	63·3	35·5	6·3	2·25	10	55·9	72	43·0	62·5	19·5	52·8	30·7	74·0	43·3	6·5	1·82	11	63·3	65	47·5	69·2	21·7	58·3	38·5	78·6	40·1	5·6	1·10	9
Torquay	46·1	81	39·7	50·2	10·5	44·9	33·3	56·7	23·4	5·1	2·13	8	53·5	80	46·0	58·9	12·9	52·5	37·8	68·6	30·8	7·1	1·36	10	60·6	69	50·7	65·6	14·9	58·1	42·1	76·1	34·0	4·9	1·50	8
Babbacombe ..	45·9	77	39·5	50·7	11·2	45·1	33·2	57·5	24·3	6·5	2·19	9	53·5	73	45·5	59·1	13·6	52·3	37·1	72·2	35·1	6·6	1·53	10	61·0	67	50·6	66·8	16·2	58·7	41·0	76·9	35·9	5·6	1·48	9
Teignmouth, B.	47·1	76	40·3	52·9	12·6	46·6	33·3	58·4	25·1	6·3	2·43	9	54·5	73	47·0	61·3	14·3	54·1	38·3	68·8	30·5	6·5	1·51	8	60·8	70	51·7	66·8	15·1	59·3	42·3	74·5	32·2	5·3	1·54	8
Teignmouth, W.	47·8	76	38·7	53·0	14·3	45·9	32·0	60·2	28·2	6·3	2·50	11	55·3	74	45·3	62·5	17·2	53·9	37·5	71·2	33·7	6·1	1·63	11	62·5	70	50·4	69·1	18·7	59·7	41·0	78·1	37·1	5·6	1·90	8
Sidmouth	46·0	81	38·0	50·4	12·4	44·2	29·0	56·2	27·2	7·8	2·48	11	54·2	76	45·1	59·3	14·2	52·2	36·5	69·0	32·5	6·9	1·18	9	59·7	76	50·1	64·0	13·9	57·0	42·4	73·8	31·4	6·7	2·90	11
Brampford Spk.	46·2	78	37·4	52·9	15·5	45·1	28·2	60·3	32·1	6·9	2·06	12	55·3	74	44·4	62·4	18·0	53·4	34·6	74·1	39·5	5·5	1·41	9	60·4	79	49·7	66·7	17·0	58·2	39·2	75·1	35·9	6·0	2·40	9
Cullompton ..	46·1	74	36·2	52·0	15·8	44·1	25·4	59·8	34·4	7·1	2·16	11	55·0	68	42·5	62·6	20·1	52·5	31·0	76·0	45·0	5·6	1·27	11	61·4	67	48·0	67·7	19·7	57·9	37·0	76·8	39·8	6·7	2·57	7
Stowell	44·3	79	36·0	50·5	14·5	43·2	26·7	58·1	31·4	7·4	2·74	16	53·2	74	43·2	60·4	17·2	51·8	34·7	75·3	40·6	5·8	1·62	14	57·9	78	48·6	64·7	16·1	56·7	41·0	75·7	34·7	6·7	2·94	12
Weymouth	45·6	78	39·7	50·7	11·0	45·2	31·9	56·3	24·4	6·3	2·40	9	53·9	76	46·5	59·0	12·5	52·8	40·2	66·8	26·6	3·9	·68	11	59·0	74	51·9	64·9	13·0	58·4	44·7	71·3	26·6	3·3	2·80	8
Swanage	46·3	84	39·1	49·4	10·3	44·2	32·0	53·4	21·4	6·8	1·43	7	54·3	79	46·1	57·9	11·8	52·0	39·7	69·3	29·6	4·5	1·23	4	57·7	79	50·4	63·2	12·8	56·8	42·1	71·0	28·9	5·7	3·37	6
Southbourne ..	45·8	78	37·0	50·6	13·6	43·8	27·5	56·4	28·9	5·8	1·89	12	55·1	71	45·0	60·1	15·1	52·6	36·8	71·9	35·1	4·6	1·02	7	59·0	75	50·0	64·3	14·3	57·1	42·0	72·8	30·8	5·4	2·76	6
Southampton..	46·6	76	35·9	53·7	17·8	44·8	27·0	61·1	34·1	7·5	1·87	12	55·9	70	43·1	63·9	20·8	53·5	30·4	79·1	48·7	5·9	1·51	8	60·4	73	48·3	68·2	19·9	58·2	36·1	78·5	42·4	6·9	2·19	11
Portsmouth ..	45·9	82	39·3	54·1	14·8	46·7	31·1	64·6	33·5	5·4	1·18	13	56·6	70	47·2	64·3	17·1	55·8	38·6	77·5	38·9	3·8	·75	9	60·3	75	51·5	68·9	17·4	60·2	42·6	77·7	35·1	3·7	1·38	5
Ventnor	47·1	78	40·5	53·0	12·5	46·7	32·5	58·1	25·6	6·6	1·18	6	55·8	72	48·1	61·0	12·9	54·6	41·5	73·1	31·6	5·5	1·12	9	59·7	74	52·0	65·7	13·7	58·8	42·8	73·2	30·4	6·1	2·10	7
Worthing	46·7	74	39·4	51·8	12·4	45·6	31·4	57·2	25·8	6·0	1·29	6	55·8	72	46·8	60·5	13·7	53·6	37·3	69·4	32·1	5·0	·50	9	59·1	73	51·0	64·4	13·4	57·7	44·7	72·3	27·6	6·0	1·62	9
Hastings	46·2	81	40·1	..	..	..	32·0	..	..	6·7	2·22	19	54·9	78	47·1	..	..	..	36·0	..	..	5·2	·39	8	57·3	..	50·6	..	..	..	43·3	..	..	6·4	2·52	15

Abstract of Climatological Observations for the Quarter ending JUNE 30th, 1884.

APRIL.

Station.	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Ramsgate	46·4	76	40·6	52·6	12·0	46·6	33·7	62·0	28·3	7·4	1·77	13
Margate	46·7	76	41·3	51·3	10·0	46·3	34·8	65·7	30·9	7·3	1·45	15
Southend	47·8	84	39·2	..	..	..	29·0	..	..	6·9	1·00	11
Marlborough ..	44·0	82	35·5	51·0	15·5	43·2	23·2	60·5	37·3	8·0	1·51	13
Strathfield Turg.	46·7	79	36·0	54·1	18·1	45·1	23·2	65·8	42·6	7·6	1·69	11
Harestock	44·9	78	35·6	51·5	15·9	43·6	26·0	59·8	33·8	7·5	1·82	12
Swarraton	44·5	82	34·8	51·6	16·8	43·2	22·1	60·6	38·5	7·3	1·56	10
Tunb. Wells ..	45·3	78	37·2	50·8	13·6	44·0	27·8	65·7	37·9	7·6	1·17	10
Tunbridge	47·4	71	38·7	53·1	14·4	45·9	28·4	66·9	38·5	6·9	1·19	9
Beddington....	46·3	74	36·5	52·6	16·1	44·5	22·0	66·8	44·8	7·5	1·49	15
Croydon	46·1	74	37·1	52·4	15·3	44·7	25·9	65·4	39·5	8·0	1·32	13
South Norwood.	46·5	73	37·6	52·9	15·3	45·3	24·5	67·0	42·5	7·6	1·06	14
Norwood	46·6	73	37·6	53·0	15·4	45·3	24·8	66·6	41·8	7·4	1·20	17
Isleworth	46·8	72	37·2	53·9	16·7	45·5	25·1	67·6	42·5	7·7	1·27	13
London, Old St.	46·8	73	40·1	53·1	13·0	46·6	31·2	66·9	35·7	8·1	1·31	19
Regent's Park..	46·0	74	38·8	53·6	14·8	46·2	30·7	69·8	39·1	..	1·16	14
Finchley	45·6	80	36·2	51·5	15·3	43·9	27·1	63·0	35·9	7·6	1·16	11
Watford	..	..	..	..	..	..	23·7	67·5	43·8	..	1·34	13
Throcking	45·2	79	..	..	..	..	25·9	65·8	39·9	6·5	·97	16
Aspley Guise ..	46·4	74	35·6	51·9	16·3	43·8	25·4	67·2	41·8	7·4	1·30	14
Hillington	47·7	85	35·9	53·6	17·7	44·8	25·0	68·6	43·6	7·7	1·42	19
Cromer	47·1	81	39·6	53·0	13·4	46·3	33·3	67·9	34·6	7·3	1·22	16
Somerleyton ..	46·4	78	38·6	51·1	12·5	44·8	30·1	61·3	31·2	7·0	1·17	15
Lowestoft	46·6	78	39·4	50·0	10·6	44·7	31·3	60·0	28·7	7·4	1·27	19
Guernsey	47·6	80	42·9	52·3	9·4	47·6	37·0	56·9	19·9	6·5	2·12	11
Londonderry ..	48·5	74	38·3	54·6	16·3	46·4	32·0	63·9	31·9	6·5	1·49	13
Dublin	47·3	75	40·4	52·4	12·0	46·4	33·9	59·3	25·4	5·9	1·53	11
Killarney	47·0	80	37·7	52·7	15·0	45·2	26·7	58·8	32·1	7·5	1·58	12

MAY.

Station.	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Ramsgate	56·3	69	46·4	62·2	15·8	54·3	37·1	74·1	37·0	4·6	·26	8
Margate	55·4	73	46·4	60·2	13·8	53·3	37·8	74·8	37·0	4·8	·23	8
Southend	57·3	81	45·4	..	..	..	32·9	..	..	5·9	·27	7
Marlborough ..	54·6	71	42·1	62·4	20·3	52·3	33·0	78·4	45·4	6·4	1·13	11
Strathfield Turg.	56·1	71	42·3	65·1	22·8	53·7	32·7	82·6	49·9	6·1	·74	8
Harestock	54·5	69	42·5	62·0	19·5	52·2	30·4	77·2	46·8	6·1	·62	8
Swarraton	53·6	72	41·5	62·0	20·5	51·7	23·3	77·9	54·6	6·3	·94	8
Tunb. Wells ..	54·5	73	44·1	61·0	16·9	52·5	35·9	79·4	43·5	5·9	·79	10
Tunbridge	57·4	65	44·5	63·9	19·4	54·2	33·4	82·9	49·5	5·3	·38	9
Beddington....	56·2	69	42·7	63·7	21·0	53·2	33·6	79·3	45·7	6·0	·84	9
Croydon	56·0	67	44·0	63·1	19·1	53·6	36·9	78·4	41·5	5·7	·56	10
South Norwood.	56·1	66	43·8	63·6	19·8	53·7	34·5	78·6	44·1	5·8	·59	9
Norwood	56·3	67	44·4	64·1	19·7	54·2	36·0	79·6	43·6	5·7	·91	9
Isleworth	56·4	65	43·8	64·3	20·5	54·1	32·0	80·4	48·4	6·4	·61	10
London, Old St.	56·4	65	47·0	64·7	17·7	55·9	38·6	80·7	42·1	7·5	·84	13
Regent's Park..	55·2	70	45·3	64·4	19·1	54·8	36·1	80·3	44·2	..	·81	10
Finchley	54·6	77	42·3	62·3	20·0	52·3	31·5	77·2	45·7	6·3	1·32	12
Watford	55·4	66	42·8	64·1	21·3	53·5	33·2	81·0	47·8	6·5	·65	9
Throcking	55·0	..	42·8	62·7	19·9	52·7	31·4	77·3	45·9	5·0	·39	6
Aspley Guise ..	56·1	70	42·4	63·4	21·0	52·9	32·5	79·5	47·0	5·3	1·01	11
Hillington	56·2	82	42·5	63·1	20·6	52·8	31·2	78·3	47·1	6·4	1·14	9
Cromer	55·0	75	44·4	61·4	17·0	52·9	31·8	75·9	44·1	5·7	·90	8
Somerleyton ..	54·6	74	44·5	60·3	15·8	52·4	33·7	71·8	38·1	5·4	1·23	7
Lowestoft	54·2	76	..	59·3	..	..	..	71·0	..	5·3	1·16	11
Guernsey	..	..	..	..	..	..	42·3	77·4	35·1	..	·80	..
Londonderry ..	53·8	71	43·3	59·5	16·2	51·4	35·3	74·4	39·1	6·6	3·51	18
Dublin	53·9	72	45·6	59·5	13·9	52·5	37·2	69·4	32·2	6·7	1·35	16
Killarney	54·1	81	44·5	59·5	15·0	52·0	34·5	73·7	39·2	7·2	3·86	18

JUNE.

Station.	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Ramsgate	58·4	73	49·5	64·0	14·5	56·8	43·3	73·6	30·3	5·9	·58	6
Margate	57·8	76	50·4	63·3	12·9	56·9	44·7	73·0	28·3	5·8	·86	7
Southend	60·6	83	49·6	..	..	..	43·1	..	..	7·4	1·21	9
Marlborough ..	59·1	75	48·0	66·7	18·7	57·3	35·4	83·0	47·6	7·9	3·51	10
Strathfield Turg.	59·7	76	48·1	68·8	20·7	58·4	34·2	83·2	49·0	6·7	2·61	8
Harestock	58·3	72	48·1	65·9	17·8	57·0	34·9	79·3	44·4	6·4	2·23	9
Swarraton	57·8	76	46·9	65·7	18·8	56·3	31·1	81·1	50·0	7·3	2·07	8
Tunb. Wells ..	57·7	75	..	..	..	..	40·4	80·1	39·7	7·1	1·35	9
Tunbridge	60·4	69	49·3	67·8	18·5	58·5	39·8	81·9	42·1	5·9	1·17	8
Beddington....	58·8	73	47·2	66·7	19·5	57·0	37·9	79·9	42·0	7·0	1·61	8
Croydon	58·4	73	48·8	66·1	17·3	57·4	41·7	79·0	37·3	7·1	1·90	9
South Norwood.	58·3	74	48·8	66·1	17·3	57·4	41·6	80·3	38·7	7·1	2·25	8
Norwood	58·9	72	49·6	67·1	17·5	58·4	40·5	80·4	39·9	6·8	2·18	9
Isleworth	59·5	69	49·6	68·4	18·8	59·0	38·2	81·1	42·9	6·7	2·10	9
London, Old St.	59·0	72	52·1	67·7	15·6	59·9	45·6	79·8	34·2	8·1	2·52	7
Regent's Park..	58·6	73	50·1	68·2	18·1	59·2	40·6	80·3	39·7	..	2·60	8
Finchley	58·1	80	47·8	66·1	18·3	56·9	37·9	78·0	40·1	6·7	2·65	8
Watford	58·3	74	49·0	67·2	18·2	58·1	36·2	80·6	44·4	6·3	2·39	8
Throcking	57·5	84	47·8	65·3	17·5	56·6	38·9	77·7	38·8	6·2	1·29	8
Aspley Guise ..	59·5	71	47·5	67·5	20·0	57·5	37·0	80·1	43·1	6·7	1·45	7
Hillington	59·8	..	46·0	68·0	22·0	57·0	39·1	84·2	45·1	7·1	1·16	8
Cromer	57·5	82	48·7	63·6	14·9	56·1	40·8	74·9	34·1	5·0	·68	7
Somerleyton ..	57·5	76	47·9	62·5	14·6	55·2	40·2	75·4	35·2	6·2	·79	7
Lowestoft	57·8	79	..	61·8	..	..	..	76·0	..	5·4	·57	7
Guernsey	58·0	82	51·3	63·6	12·3	57·4	45·3	70·4	25·1	5·1	2·71	7
Londonderry ..	57·8	73	47·9	63·8	15·9	55·9	40·0	81·1	41·1	8·6	1·33	15
Dublin	58·9	68	50·7	65·0	14·3	57·9	43·1	75·4	32·3	6·6	1·25	10
Killarney	57·2	79	45·2	63·5	18·3	54·4	34·9	72·0	37·1	6·6	1·20	8

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WITH

REMARKS ON THE WEATHER

FOR THE QUARTER ENDING

SEPTEMBER 30TH, 1884.

BY

WILLIAM MARRIOTT, F.R.Met.Soc.

Assistant-Secretary.

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THE METEOROLOGICAL RECORD.

REMARKS

ON THE

WEATHER OVER ENGLAND

FOR THE QUARTER ENDING SEPTEMBER 30TH, 1884.

THE weather for the quarter may be summarised as fine, dry and hot. The early part of July was warm, but from the 10th to the 30th the weather was cool and showery. Very fine and hot weather prevailed from July 31st to August 25th, especially from the 7th to the 12th. On the 11th temperatures above 90° were registered in the South-east of England; and during the month the maximum temperature at several places exceeded 80° on fourteen days. This was the hottest August since 1857. Cold and wet weather set in on the 26th, and continued till September the 8th, after which fine warm weather prevailed from the 9th to the 20th. The latter part of the month was cold and wet. Thunderstorms were of frequent occurrence in the North during the early part of July, and also during part of August. Exceptionally heavy rain fell in the East and South-east of England on September 3rd to 4th, as much as 3·55 ins. being recorded at Lowestoft in the space of about eighteen hours. The fine weather of August was very beneficial to the harvest, which was gathered in good condition.

AIR TEMPERATURE was considerably above the average.

In *July* the mean temperature (mean of maximum and minimum) was 61°·1, and varied from 64°·5 at London, 64°·2 at Regent's Park, 64°·1 at Portsmouth, 63°·5 at Tunbridge, 63°·4 at Margate and Norwood, 63°·0 at Hillington, and 62°·9 at Croydon, Isleworth, Ramsgate and Somerleyton, to 56°·3 at Alston, 57°·5 at Cramlington, 58°·0 at Stapleton, 58°·1 at Buxton, 58°·3 at Oakamoor, 58·°6 at Cheadle, and 59°·0 at Churchstoke and Rounton. The weather was warm from the 1st to the 9th, but cold from the 10th to the end of the month. The maximum temperatures occurred on the 3rd, 4th, and 8th. The highest readings were:—on the 3rd, 84°·7 at South Norwood, 83°·0 at Croydon, and 82°·5 at Strelley; on the 4th, 89°·0 at Hillington, 85°·1 at Isleworth and Regent's Park, 84°·8 at Watford, 84°·4 at Hodsock, and 84°·1 at London and Norwood; and on the 8th, 85°·0 at Tunbridge, and 84°·9 at Beddington. The minimum temperatures took place in the North on the 20th, and in the other districts on the 26th. The lowest readings were:—On the 20th, 32°·8 at Alston, 33°·8 at Buxton, 39°·8 at Rounton, and 40°·0 at Wakefield; on the 26th, 37°·8 at Swarraton, 37°·9 at Beddington, 38°·1 at Oakamoor, 39°·0 at Stapleton, 39°·2 at Isleworth, 39°·3 at Harestock, 39°·5 at Cheltenham, and 39°·6 at Southampton. Owing to the cloudy state of the sky the mean daily range of temperature was only 15°·4.

In *August* the mean temperature was 62°·7, and varied from 66°·6 at London, 66°·5 at Portsmouth, 65°·9 at Regent's Park, 65°·5 at Ventnor, 65°·3 at Tunbridge, 65°·0 at Hillington, Margate and Ramsgate, and 64°·9 at Norwood and Watford, to 57°·1 at Alston, 57°·9 at Buxton, 58°·7 at Oakamoor, 59°·0 at Stapleton, 59°·1 at Cramlington, 60°·5 at Rounton and Scaleby, 60°·6 at Seathwaite, 60°·8 at Blackpool and Churchstoke, and 60°·9 at Belper and Cheadle. The weather was very fine, dry and hot from the 1st to the 24th, but the last few days of the month were cold and wet. The maximum temperatures occurred generally on the 8th and 11th. Readings above 88° were registered on the 11th as follows:—

93°·4 Hillington,	90°·2 Tunbridge,	89°·5 Health Exhibition,
91·8 Regent's Park,	90·0 London,	89·2 South Norwood,
91·7 Beddington,	89·9 Watford,	88·8 Croydon,
91·2 Isleworth,	89·7 Norwood,	88·2 Burghill,
90·9 Cromer,	89·7 Finchley,	88·0 Aspley Guise.

The minimum temperatures took place on the 5th, 26th, 27th, and 29th. The lowest readings were:—On the 5th, 40°·0 at Churchstoke, and 40°·2 at Swarraton; on the 20th, 34°·8 at Alston; on the 26th, 35°·1 at Alston, 36°·0 at Oakamoor, 36°·3 at Buxton, 37°·4 at St. Michael's-on-Wyre, 37°·8 at Stapleton, 38°·7 at Beddington, and 38°·8 at Macclesfield; on the 27th, 33°·8 at Alston, 35°·8 at Cheltenham, and 38°·1 at Hillington; and on the 29th, 35°·8 at Alston, 39°·4 at Cramlington, and 40°·5 at Scaleby. Owing to the clear sky and fine weather the mean daily range of temperature amounted to 18°·9.

In *September* the mean temperature was 58°·7, and varied from 61°·8 at Portsmouth, 61°·7 at London and Ventnor, 61°·2 at Worthing, 60°·7 at Ilfracombe, Regent's Park, and Teignmouth, 60°·6 at Ramsgate and Weymouth, and 60°·3 at Bude and Weston-super-Mare, to 53°·6 at Alston, 54°·7 at Buxton, 54°·9 at Stapleton, 55°·0 at Cramlington, 55°·6 at Oakamoor and Rounton, 56°·2 at Cheadle, 56°·6 at Bolton and Leaton, and 56°·8 at Belper, Scaleby and Seathwaite. The weather was cold and showery from the 1st to the 8th, and from the 21st to the 30th, but fine and warm from the 9th to the 20th. The maximum temperatures occurred generally on the 17th. The highest readings were:—On the 17th, 84°·8 at Isleworth, 83°·7 at South Norwood, 83°·3 at Beddington, 82°·8 at Norwood, Regent's Park and Watford, and 81°·9 at Tunbridge; and on the 18th, 81°·0 at Bude, 80°·6 at London, and 80°·4 at Southampton. The minimum temperatures took place in the North on the 4th and 5th, and in the other districts on the 30th. The lowest readings were:—On the 4th, 30°·8 at Alston, and 34°·4 at St. Michael's-on-Wyre; on the 5th, 32°·8 at Alston, and 35°·2 at Stapleton; and on the 30th 31°·3 at Oakamoor, 32°·2 at Bridgetown, 32°·3 at Hodsock, 32°·7 at Marlborough, 32°·9 at Burghill, 33°·0 at Cullompton and Kenilworth, 33°·1 at Belper, and 33°·5 at Hillington. The mean daily range of temperature was 14°·1.

Atmospheric Pressure was slightly above the average.

In *July* the mean pressure (reduced to sea-level) was 29·94 ins. The highest readings were in the South, and the lowest in the North. The maxi-

mum occurred on the 1st and 30th. The highest readings were :—30·235 ins. at 11.50 p.m. on the 1st at Babbacombe, and 30·213 ins. at 9 p.m. on the 30th at Leaton. The minimum took place in the South on the morning of the 10th and in the North on the morning of the 16th. The lowest readings were :—29·567 ins. at 9 a.m. on the 10th at Carmarthen, and 29·424 ins. at 9 a.m. on the 16th at Scaleby.

In *August* the pressure was higher than in the previous month, the mean being 30·01 ins. The highest readings were in the South and the lowest in the North. The maximum occurred generally on the evening of the 4th or morning of the 5th, but in the North on the 21st. The highest readings were 30·311 ins. at 9 p.m. on the 4th at Churchstoke, and 30·229 ins. at 9 p.m. on the 21st at Cramlington. The minimum took place on the evening of the 28th, the lowest reading was 29·510 ins. at 9 p.m. at Scaleby.

In *September* the pressure was about the same as in the preceding month, the mean being 30·00 ins. The highest readings were again in the South, and the lowest in the North. The maximum occurred in the North on the morning of the 12th, and in the other districts on the morning of the 18th. The highest readings were:—30·499 ins. at 9 a.m. on the 12th at Cramlington, and 30·456 ins. at 9 a.m. on the 18th at Llandudno. The minimum took place in the South-east on the morning of the 4th, and in the other districts generally on the evening of the 6th. The lowest readings were 29·330 ins. at 9 a.m. on the 4th at Lowestoft, and 29·147 ins. at 9 p.m. on the 6th at Llandudno.

RAINFALL was below the average.

In *July* both the rainfall and number of rainy days were in excess of those of the previous month. The monthly falls varied from 9·75 ins. at Seathwaite, 7·86 ins. at Stapleton, 6·69 ins. at Scaleby, 6·56 ins. at Alston, 5·55 ins. at Carmarthen, 5·39 ins. at Bolton, and 5·09 ins. at Buxton, to 1·37 in. at Margate, 1·46 in. at Ramsgate, 1·58 in. at Tunbridge Wells, 1·59 in. at Beddington and Croydon, 1·69 in. at the Health Exhibition, and 1·75 ins. at Cromer. Rain fell more or less on every day during the month. Thunderstorms were of frequent occurrence, especially in the North. Daily falls of 1 inch and above were recorded as follows:—On the 6th, 1·32 in. at Chester, and 1·07 in. at Carmarthen; on the 9th, 2·04 ins. at Hodsock, 1·60 in. at Seathwaite and Throcking, and 1·09 in. at Wakefield; on the 10th 1·70 in. at Stapleton, 1·39 in. at Alston, 1·06 in. at Strelley, and 1·00 in. at Scaleby; on the 15th, 2·35 ins. at Seathwaite, 1·82 in. at Ashburton, and 1·18 in. at Bridgetown, and on the 21st, 1·00 in. at Lowestoft. Thunderstorms occurred on the 1st, 3rd to 6th, 8th to 14th, 16th, 17th, 19th, and 23rd to 27th. Hail fell on the 5th, 11th, 16th, 24th and 27th.

In *August* both the rainfall and the number of rainy days were much below the average. The monthly falls varied from 6·14 ins. at Cromer, 3·40 ins. at Ilfracombe, 3·29 ins. at Seathwaite, 3·22 ins. at Carmarthen, 3·10 ins. at Weston-super-Mare, and 2·73 ins. at Cheadle, to 0·56 in. at Ramsgate, 0·67 in. at Southend and Teignmouth, 0·71 in. at Torquay, 0·72 in. at London, 0·75 in. at Tunbridge and 0·77 in. at Babbacombe. Rain fell locally during thunderstorms from 9th to 12th, 24th and 25th; and generally on the 19th, and 27th to 31st. The greatest daily falls

occurred on the 10th, 27th and 31st. Falls exceeding 1 inch were recorded as follows:—On the 11th, 2·05 ins. at Cromer; on the 19th, 1·61 in. at Cromer; and on the 31st, 1·43 in. at Carmarthen, 1·40 in. at Cromer, 1·38 in. at Strelley, 1·30 in. at Ilfracombe, 1·25 in. at Cheadle, 1·22 in. at Oakamoor, 1·21 in. at Hillington, 1·18 in. at Belper, 1·17 in. at Stowell, and 1·04 in. at Macclesfield. Thunderstorms occurred on the 4th, 8th to 12th, 19th, 24th, 25th and 29th. Hail fell on the 9th, 12th and 29th.

In *September* the rainfall was again below the average, except in the South-east, where a very heavy fall occurred on the 3rd and 4th. The monthly falls varied from 11·74 ins. at Seathwaite, 4·60 ins. at Bolton and Lowestoft, 4·51 ins. at Somerleyton, 4·35 ins. at Margate, 4·24 ins. at Carmarthen, 4·18 ins. at Macclesfield, 4·15 ins. at Tunbridge Wells, 4·03 ins. at Hastings, and 4·01 ins. at Tunbridge, to 0·83 in. at Hodsock, 0·91 in. at Wakefield, 0·93 in. at Cheltenham and Rounton, 0·99 in. at Kenilworth, 1·08 in. at Burghill, and 1·13 in. at Strelley. Exceptionally heavy rain fell in the South-east from about 9 p.m. on the 3rd to 8 p.m. on the 4th.

The following are the amounts measured during this interval:—

3·55 ins.	Lowestoft	2·21 ins.	Tunbridge	1·77 in.	Hastings
2·81 ,,	Southend	2·05 ,,	Margate	1·61 ,,	Cromer
2·43 ,,	Tunbridge Wells	1·90 ,,	Ramsgate	1·37 ,,	Croydon
2·38 ,,	Somerleyton	1·86 ,,	Worthing	1·32 ,,	Ventnor

Falls exceeding 1 inch were recorded at Seathwaite on four occasions, the heaviest being 1·88 in. on the 30th. Thunderstorms occurred on the 1st to 3rd, 5th, 13th, 14th, and generally on the 21st. Hail fell on the 21st and 22nd.

Wind.—In *July* North-easterly and variable winds prevailed from the 1st to 10th, South-west from the 11th to 24th, and North-west from 25th to 31st. In *August* very light and variable winds prevailed throughout the month. In *September* the general direction of the wind was South-west on the 1st to 3rd, North-west from the 4th to 9th, North-east from the 10th to 20th, and South-west from the 21st to 30th. Gales occurred on the 4th and 27th.

Fog prevailed on *July* 1st to 10th, 12th, 20th, 22nd, 23rd and 27th to 31st; *August* 1st, 2nd, 5th to 14th, 16th, 18th, 20th to 28th and 30th; and *September* 3rd, 4th, 6th, 8th to 21st, 25th, 29th and 30th.

Halos were seen on *July* 9th, 12th to 15th, and 26th; *August* 2nd, 10th, 17th, 20th and 25th; and *September* 1st to 3rd, 15th, 16th, 21st, 25th, 29th and 30th.

Destructive Whirlwind in West Cork, July 12th, 1884.

Bandon, Sunday, July 13th.

Yesterday morning a very remarkable and singular occurrence took place about midway between Ballinspittle and Ballinadee. About nine o'clock some farmers and others who were on their way to the Bandon markets observed a large cloud, densely black, coming on from the direction of the Old Head (of Kinsale), and apparently emitting puffs of smoke like ever so many railway

engines, and making a low rumbling noise. They describe it as moving along at eight to ten miles an hour, and close to the earth, knocking down several haycocks in the fields, and some trees where it encountered them. No sound of thunder was heard, but a gentleman who saw the phenomenon from a longer distance off says he saw lightning flash through it repeatedly. It also appeared to have a lot of objects gathered within its folds, and caused the utmost alarm to the country people who saw it, and who designated it the "Sheghee." Near Kilgobbin it took the roof completely off the house of a fisherman named Jeremiah Hogan, and deposited it a considerable distance off. A labourer who was at work in a field narrowly escaped being crushed by it, owing to a ditch sheltering him. Hogan was in bed at the time, having been out during the night fishing, and the bed-clothes were taken clean off him, and his own clothes out of the room and scattered through the fields a half a mile off. He himself was uninjured, but several fowls around the house were killed. The cloud did not enter into Ballinadee, having about sixty yards outside broken into two parts, one of which passed over the creek at Ballinadee, and the other towards Lord Bandon's quay, seemingly spending its force on the opposite side of the Bandon river in Shippool wood. No casualties except those indicated are reported, but that the appearance was of the most alarming character was plain from its being the subject of general conversation in Bandon on Saturday.—*The Cork Constitution*, July 14th.

WATERSPOUTS OFF VENTNOR, ISLE OF WIGHT, SEPTEMBER 5TH, 1884.

MR. W. E. KILBURN, St. Lawrence, Ventnor, writes:—"At 6.15 to 6.30 p.m. the very remarkable phenomenon was visible, opposite this part of the back of the island, of three waterspouts, which depended at almost equal distance from a large and beautiful cloud South. The weather was fine, and the sea disturbance slight at the points of junction."

Rev. C. J. STEWARD, F.R.Met.Soc., who was at Freshwater, says:—"On looking over the sea at about 8 p.m. I noticed a rather peculiar set of clouds, or rather one long line of cloud, something of a cumulus description, but the curvature of the portions of vapour being very small and distinct. This line of cloud might be about ten miles in length, and apparently not above ¼ mile broad. From one portion of it depended a conical mass—which was a waterspout either about to form or else drawing up. In point of fact before it reached the land it drew up into the cloud, which one could judge to be not more than 400 yards above the surface of the sea.

"This same afternoon off Ventnor there were noticed no less than five waterspouts in action, I conclude without hesitation formed from this cloud, for the sky was quite clear of clouds, except this remarkable one,—the direction it took would carry it out to sea again after crossing the island just about over Ventnor. I did not hear of any waterspouts to the eastward. I conclude therefore that the conical appendage I observed was an abortive attempt to form one, which was frustrated by some forbidding electrical condition which arose as it neared the land, and the sympathies, so to speak, between the cloud and sea were renewed when it passed over the island."

TEMPERATURE OF THE SOIL AT 9 A.M.

Station.	Depth below the Surface.	July.			August.			September.		
		Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.
		°	°	°	°	°	°	°	°	°
Aspley Guise	3 ins.	65·3	73·0	59·9	66·1	71·9	58·2	59·2	64·2	52·9
Babbacombe	6 ins.	63·5	66·8	59·3	65·0	68·3	60·3	60·6	64·8	55·8
Southampton	6 ,,	64·3	67·5	59·6	65·9	70·7	58·9	60·1	63·6	55·7
Marlborough	6 ,,	64·1	68·0	59·0	64·7	70·2	57·6	59·0	64·9	51·0
Croydon	6 ,,	63·8	69·6	59·0	64·4	69·8	57·4	59·2	64·0	54·9
Aspley Guise	6 ,,	64·7	70·3	59·4	65·9	70·9	58·8	59·4	64·7	52·9
Rounton	1 ft.	60·6	63·5	57·2	60·3	63·0	56·5	56·3	58·2	54·0
Hodsock	1 ,,	62·0	64·1	59·0	62·6	65·8	58·2	58·1	61·7	54·2
Strelley	1 ,,	59·7	62·0	57·0	60·5	63·9	57·2	56·9	60·0	53·4
Cardiff	1 ,,	62·4	64·1	59·8	62·8	66·0	59·5	59·2	61·4	56·6
Babbacombe	1 ,,	63·9	66·5	60·5	65·2	68·0	61·4	61·6	65·0	58·7
Cullompton	1 ,,	62·5	64·8	58·8	64·4	67·0	61·0	60·4	63·4	56·4
Stowell	1 ,,	64·5	66·9	61·4	64·8	68·5	61·3	61·4	64·4	58·2
Southampton	1 ,,	63·2	66·0	60·3	64·0	68·0	59·8	60·1	62·4	57·4
Worthing	1 ,,	64·8	68·0	61·9	67·1	71·0	62·2	61·9	65·0	58·7
Marlborough	1 ,,	64·3	67·0	60·7	65·4	69·3	60·2	60·2	64·4	55·2
Harestock	1 ,,	60·6	62·9	57·4	61·8	65·5	57·6	58·2	61·0	56·1
Croydon	1 ,,	63·8	68·1	60·0	64·7	69·0	59·5	60·1	64·4	57·0
Norwood	1 ,,	62·5	65·8	59·1	63·5	67·1	59·3	59·2	62·4	55·9
Isleworth	1 ,,	63·0	66·5	59·2	65·0	69·1	60·0	59·6	63·4	56·0
South Kensington, I.H.E.	1 ,,	63·8	67·5	60·0	65·2	69·8	60·1	60·2	64·1	57·1
Regent's Park	1 ,,	63·1	67·0	59·2	64·5	68·5	59·8	59·3	63·0	56·0
Aspley Guise	1 ,,	64·4	70·1	59·7	66·2	70·7	59·4	59·1	64·5	53·8
Lowestoft	1 ,,	63·9	68·0	59·9	64·9	68·5	59·0	59·4	63·2	56·4
Marlborough	1½ ft.	63·7	65·4	61·3	65·2	68·0	61·5	60·7	63·9	57·9
Margate	2 ft.	62·7	64·8	60·9	64·5	66·2	61·4	61·0	63·2	58·9
Marlborough	2 ,,	62·3	63·2	61·1	64·0	65·7	61·4	60·6	62·1	58·8
Harestock	2 ,,	59·0	60·0	57·5	60·4	62·0	58·3	57·9	59·3	56·7
Isleworth	2 ,,	62·5	63·9	60·3	65·0	67·0	61·8	60·7	62·9	58·0
Aspley Guise	2 ,,	64·0	67·2	61·2	66·1	68·7	61·7	60·2	63·6	57·7
Lowestoft	2 ,,	64·2	67·5	61·1	65·8	68·5	61·0	60·6	63·6	58·0
Cardiff	4 ft.	56·6	57·3	55·1	58·2	58·7	57·2	57·7	58·1	57·1
Harestock	4 ,,	55·6	56·2	53·9	57·5	58·2	56·1	57·0	57·6	56·7
Regent's Park	4 ,,	59·6	60·8	58·0	61·6	63·0	59·8	59·9	61·5	58·5
Aspley Guise	4 ,,	60·5	61·1	59·7	62·6	63·8	60·1	59·7	61·1	58·5
Lowestoft	4 ,,	59·6	60·7	58·0	61·4	62·4	59·0	59·0	60·0	58·0

DURATION OF BRIGHT SUNSHINE.

Station.	Total amount.			Greatest amount on one day.			No. of days on which no Sunshine was registered.		
	July.	Aug.	Sept.	July.	Aug.	Sept.	July.	Aug.	Sept.
	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.			
Blackpool	137	187	135	11·7	11·2	10·2	5	2	1
Hodsock	147	206	117	12·4	12·3	8·5	2	2	2
Strelley	129	206	116	10·4	12·9	9·7	2	2	2
Buxton	109	..	..	12·0	12·0	10·0	3	..	..
Churchstoke	154	210	142	13·0	11·3	10·5	2	2	1
Llandudno	137	200	115	12·9	11·7	8·8	5	2	3
Cullompton	152	210	137	12·9	12·3	10·3	3	2	1
Southbourne	163	229	118	12·8	12·5	10·3	2	3	6
St. Leonard's	202	267	140	13·0	13·0	10·8	1	3	2
Marlborough	136	223	128	12·5	12·0	8·8	2	3	2
Harestock	145	237	134	11·8	12·3	10·4	0	2	3
Croydon	162	226	121	12·5	12·3	8·5	0	3	6
Kew Obsy.	153	227	130	13·1	12·4	11·0	0	2	3
Greenwich	127	203	119	12·8	12·3	8·9	1	2	6
London, Bunhill Row	125	196	101	9·9	11·9	8·4	2	2	6
Aspley Guise	133	225	133	10·9	12·3	10·3	1	3	1
Hillington	170	222	136	12·5	11·5	8·7	0	2	2

Date.	JULY.											AUGUST.											SEPTEMBER.										
	Max. Temp.				Min. Temp.				Sunshine.			Max. Temp.				Min. Temp.				Sunshine.			Max. Temp.				Min. Temp.				Sunshine.		
	Old Street.	Regent's Park.	Greenwich.	Kew Obsy.	Old Street.	Regent's Park.	Greenwich.	Kew Obsy.	Bunhill Row.	Greenwich.	Kew Obsy.	Old Street.	Regent's Park.	Greenwich.	Kew Obsy.	Old Street.	Regent's Park.	Greenwich.	Kew Obsy.	Bunhill Row.	Greenwich.	Kew Obsy.	Old Street.	Regent's Park.	Greenwich.	Kew Obsy.	Old Street.	Regent's Park.	Greenwich.	Kew Obsy.	Bunhill Row.	Greenwich.	Kew Obsy.
	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.
1	75·4	76·3	79·9	75·2	56·1	55·2	54·3	55·9	7·5	10·1	10·4	78·9	79·5	81·1	81·4	58·7	57·7	55·5	56·4	8·5	8·9	8·1	67·7	65·7	72·0	66·1	58·8	57·7	55·4	56·5	2·4	2·7	2·8
2	77·1	78·8	77·0	78·4	56·0	52·7	51·5	51·8	7·6	7·6	13·1	81·1	79·5	85·3	76·6	59·6	57·5	56·0	57·1	8·4	9·6	11·5	66·2	67·2	70·0	65·8	55·9	54·7	51·5	53·2	4·3	4·7	6·1
3	81·1	82·2	84·1	83·6	59·1	55·7	53·0	53·6	8·8	12·8	9·5	71·4	72·1	75·3	69·1	56·1	55·7	52·7	53·5	5·2	4·7	3·8	66·2	68·3	70·2	67·0	54·8	49·1	49·8	47·3	1·4	3·3	5·5
4	84·1	85·1	88·1	83·9	61·6	57·2	56·6	55·8	9·9	10·8	11·2	72·7	73·3	75·3	72·0	53·1	50·7	49·0	50·4	10·0	8·0	12·4	62·0	62·2	60·0	61·5	54·3	52·7	49·0	51·2	..	..	..
5	76·2	76·8	80·4	75·1	63·1	58·6	58·1	57·4	1·7	4·0	2·7	73·6	75·3	79·3	75·4	52·6	56·5	46·1	47·2	7·3	9·0	9·2	65·5	65·7	66·4	64·6	48·1	45·7	46·6	47·3	8·3	7·6	11·0
6	68·7	70·8	75·0	68·6	58·9	56·7	54·6	54·5	3·4	2·6	3·9	77·3	77·8	79·1	76·1	52·3	51·7	49·0	49·5	11·9	10·5	11·1	63·2	62·7	62·1	62·8	48·3	43·1	43·9	43·8	..	..	..
7	74·2	75·3	78·4	76·5	57·1	55·7	55·3	56·0	7·0	6·2	6·9	84·5	84·3	86·8	83·7	57·1	55·9	52·7	53·8	9·2	10·4	9·0	64·2	65·0	63·7	63·1	56·3	55·7	51·4	52·8	2·3	2·2	4·0
8	82·1	84·3	85·5	83·5	58·1	56·1	54·0	55·4	8·5	10·9	9·4	86·9	81·8	88·5	86·9	62·3	60·7	59·2	57·8	9·2	10·4	7·9	65·0	62·5	63·3	61·1	53·3	50·9	50·8	51·6	..	..	0·3
9	81·9	82·3	86·5	78·3	57·1	60·7	59·3	60·0	3·8	3·7	3·8	84·1	84·2	87·0	84·5	62·4	60·7	58·6	59·1	4·5	6·5	3·6	69·0	68·5	69·6	68·4	58·1	57·2	58·3	56·5	..	..	0·1
10	71·8	73·3	75·7	73·1	62·1	58·7	54·5	55·8	1·5	1·5	0·8	81·2	81·3	83·1	81·4	62·6	60·6	59·2	59·3	5·3	6·7	3·7	69·7	69·3	71·4	68·3	59·8	58·9	50·5	55·6	5·2	8·0	5·5
11	69·2	69·8	73·8	69·2	55·6	53·7	52·4	53·9	5·8	5·8	5·6	90·0	91·8	94·2	89·2	63·6	62·9	58·5	59·3	10·6	12·0	12·1	73·7	72·5	75·0	70·1	59·1	56·2	49·7	50·8	6·2	7·0	6·2
12	71·0	72·0	69·3	67·6	58·9	57·7	56·7	55·9	2·3	1·9	1·4	80·1	81·3	84·0	80·6	65·1	64·2	63·2	62·1	6·7	5·5	7·3	74·1	72·5	73·6	70·1	55·5	55·2	53·8	54·9	7·7	7·8	8·1
13	80·1	81·3	83·6	81·6	60·3	58·9	56·6	57·8	4·1	4·0	6·4	76·2	77·9	81·9	76·3	62·4	61·2	58·7	59·6	4·1	3·6	4·1	76·2	74·8	75·1	72·8	56·3	55·9	53·5	54·7	8·1	7·9	7·6
14	71·7	73·3	76·1	71·4	57·6	54·7	53·9	53·8	6·9	6·8	8·0	72·4	72·5	75·2	71·4	59·4	57·9	55·8	57·2	4·8	3·4	5·7	71·2	70·8	71·0	70·2	57·8	57·2	54·5	56·1	1·5	1·4	0·9
15	71·2	71·3	74·3	70·0	58·6	57·6	56·7	56·9	1·9	1·0	1·6	75·2	76·8	79·3	75·4	56·4	53·9	52·7	52·0	8·2	9·4	12·2	75·9	76·3	78·1	73·8	57·4	55·7	54·9	55·9	2·2	3·5	1·2
16	69·2	70·8	72·2	69·2	61·3	61·5	54·6	56·7	4·1	4·0	4·9	78·3	80·3	83·1	79·3	58·3	52·9	51·6	50·8	9·5	12·3	12·3	75·7	78·3	78·6	75·0	63·6	62·7	61·4	60·8	5·9	7·2	8·0
17	72·0	73·3	76·0	69·8	56·1	54·6	53·0	54·2	3·3	2·4	3·8	82·1	84·3	87·1	82·8	57·6	54·7	53·7	51·7	9·6	8·9	10·2	80·6	82·8	83·5	80·5	61·5	60·7	58·0	59·4	6·4	8·4	6·6
18	66·6	68·3	73·5	66·9	53·9	52·2	51·4	51·5	3·6	3·6	4·4	79·6	80·3	84·2	79·2	60·6	54·7	54·5	52·0	5·7	5·3	11·8	80·6	80·5	80·2	77·1	61·3	60·7	57·6	56·2	8·4	8·9	8·5
19	66·9	68·8	68·8	67·2	51·8	49·7	48·5	49·0	8·8	4·9	10·3	70·4	71·1	75·5	71·2	56·5	53·7	51·9	52·7	2·9	2·4	2·8	68·7	67·2	68·3	66·3	56·3	55·0	53·8	54·7	3·4	4·2	4·9
20	66·9	68·8	73·7	69·4	53·9	49·2	47·5	47·9	0·5	2·5	4·1	74·2	76·3	77·0	72·4	53·4	49·7	49·6	49·7	9·8	9·2	11·0	70·2	68·9	70·7	68·9	55·8	54·6	51·6	54·1	6·4	8·4	9·9
21	69·2	70·3	70·5	68·6	58·1	56·7	53·9	55·1	1·0	0·3	1·0	75·7	77·8	75·1	77·8	59·1	53·5	53·5	52·9	2·4	2·8	10·1	69·7	70·5	72·7	69·4	54·3	52·9	50·2	51·7	3·5	4·5	4·2
22	71·4	71·8	75·6	70·3	56·9	52·9	54·1	55·1	0·4	0·3	1·3	80·6	79·5	81·3	78·6	56·3	53·7	51·3	52·2	8·6	10·7	10·2	63·8	63·7	65·1	62·8	53·5	51·9	50·2	51·2	5·7	5·4	7·4
23	69·2	71·3	72·5	69·0	60·9	60·2	53·5	58·3	1·1	1·6	1·3	82·7	81·8	83·5	81·0	58·1	56·7	54·5	54·6	9·0	8·6	8·4	62·2	62·7	64·1	59·3	49·6	46·9	46·9	47·4	3·8	4·8	6·1
24	68·0	67·3	70·6	66·0	51·6	50·1	49·2	49·5	8·3	6·3	8·5	84·7	87·1	88·1	84·7	58·1	55·9	53·6	53·6	11·5	11·1	11·7	62·7	62·7	63·2	62·1	53·3	49·2	47·7	49·2	0·6	1·1	1·2
25	66·4	67·3	70·0	64·2	50·6	48·7	48·0	47·8	3·7	2·4	4·8	65·7	66·2	69·3	66·1	63·6	61·2	50·8	51·5	0·3	0·1	0·5	64·5	64·0	67·0	63·5	50·1	47·9	48·0	46·9	4·6	6·3	9·2
26	61·4	62·4	66·2	63·6	47·2	43·6	42·3	43·7	1·2	1·2	1·7	60·2	60·7	63·7	59·5	48·1	45·4	45·8	46·1	3·4	3·6	3·6	64·4	65·2	66·9	63·5	53·4	50·2	48·8	47·4	0·7	1·3	1·1
27	66·3	69·3	65·6	66·3	52·9	52·5	51·8	53·0	2·0	0·6	2·1	61·2	60·0	59·1	58·1	50·6	48·9	50·6	49·6	..	..	..	61·3	61·5	61·9	59·8	50·3	47·0	46·4	47·4	..	..	0·1
28	68·9	70·5	71·1	69·0	54·9	52·9	53·7	52·9	3·0	2·4	3·2	68·2	68·3	71·5	67·0	53·9	53·5	52·3	53·6	2·8	2·0	4·1	65·3	66·7	67·1	65·4	55·1	53·2	51·8	52·8	0·5	0·7	0·3
29	68·2	67·8	69·4	68·6	55·9	55·6	55·1	55·7	..	..	0·1	66·2	65·2	68·1	63·8	52·9	51·7	51·3	50·9	6·8	7·3	8·6	63·2	63·0	63·1	63·0	58·2	56·0	50·0	51·2	..	..	..
30	71·7	75·3	72·0	74·0	60·7	59·7	59·3	61·0	..	0·1	1·6	67·7	68·3	68·7	67·8	53·7	52·5	51·6	51·8	..	..	..	61·4	61·0	63·3	61·8	46·2	42·1	42·4	41·1	1·0	1·8	2·7
31	74·8	76·5	80·4	77·1	59·6	56·7	55·6	55·9	3·2	4·2	5·3	67·7	67·3	70·1	67·7	57·1	57·5	59·1	59·8	0·1	0·5	0·1	..	..	..	..	..	..	..	..	..	..	..
Means	72·0	73·3	75·3	72·1	57·0	55·1	53·5	54·3	4·0	4·1	4·9	75·8	76·3	78·7	75·4	57·5	55·6	53·6	53·8	6·3	6·6	7·3	68·1	68·1	69·2	66·8	55·2	53·2	51·3	52·0	3·4	4·0	4·3

NOTE.—At Old Street and Regent's Park the thermometers are read at 9 a.m., the maximum temperature being entered to the previous day; while at Greenwich and Kew the temperatures apply to the civil day. At Old Street and Regent's Park the thermometers are mounted in Stevenson screens; at Greenwich on a Glaisher stand; and at Kew in the thermograph screen.

Abstract of Meteorological Observations for the Month of JULY, 1884.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of					Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.														
Cramlington	29·888	58·2	55·5	56·9	50·5	64·5	40·0	28	73·8	8	55·6	54·2	84	91	8·2	7·8	4·01	·75	13	20	0	0	18	0	3	14	4	4	5	19	8	5	0
Scaleby.....	·868	60·7	57·1	58·9	51·5	68·4	40·7	26	80·2	3	..	..	..	..	7·6	7·2	6·69	1·00	10	22	0	0	16	0	3	1	5	5	4	20	4	0	20
Rounton	·902	60·3	56·9	58·6	50·7	67·4	39·8	20, 26	78·8	3	56·8	55·1	79	88	6·5	7·3	3·15	·63	5	25	0	0	12	0	4	2	1	5	14	20	2	8	6
Scarborough	·902	61·1	58·3	59·7	54·1	65·6	45·0	20	75·6	13	57·2	55·9	77	85	6·4	6·8	2·29	·60	26	18	0	0	9	0	5	3	2	6	10	17	10	4	5
Wakefield....	·908	61·8	59·1	60·5	53·0	68·8	40·0	20	80·4	4	58·3	57·3	79	89	6·9	6·5	2·90	1·09	9	24	0	2	10	0	6	9	7	3	11	13	4	9	0
Buxton	·912	60·4	55·3	57·8	49·1	67·0	33·8	20	75·7	4	56·9	53·5	79	88	7·2	6·3	5·09	·69	9	21	0	1	8	0	2	0	3	6	7	17	10	17	0
Cheadle	·925	59·1	57·2	58·2	51·4	65·9	42·0	26	75·1	3	56·9	55·9	86	91	7·3	5·5	3·23	·42	10	22	0	2	11	1	5	0	4	5	8	15	9	13	3
Llandudno ..	·895	62·0	58·8	60·4	54·2	65·3	47·5	19, 20	72·0	5	58·0	56·6	77	86	7·8	6·2	4·48	·91	5	20	0	1	12	0	7	0	0	0	12	14	20	9	0
Leaton	·931	61·7	56·9	59·3	..	..	40·8	26	77·5	3	58·1	55·2	79	89	7·9	5·4	1·94	·30	28	24	0	0	12	..	10	3	0	4	14	12	15	4	0
Churchstoke..	·938	60·3	56·5	58·4	50·7	67·3	41·1	26	75·5	3	56·9	54·8	79	89	7·4	6·0	2·89	·37	23	20	0	1	9	0	2	0	0	3	5	25	13	8	6
Cheltenham ..	·940	62·6	58·7	60·7	53·0	68·8	39·5	26	77·2	8	59·8	57·4	83	92	7·0	6·1	3·00	·66	15	25	0	1	9	1	2	0	0	3	21	12	8	3	13
Carmarthen	·931	61·6	58·0	59·8	53·5	66·7	44·5	7	75·2	3	57·8	55·8	78	86	7·5	6·3	5·55	1·07	6	22	0	0	9	0	3	0	4	6	8	20	12	0	9
Babbacombe..	·983	62·0	58·1	60·1	53·9	67·0	47·0	26	73·2	29, 30	58·4	56·3	79	89	7·0	6·1	2·72	·83	15	22	0	0	7	0	2	6	2	4	15	18	9	6	0
Southbourne	·965	62·2	59·3	60·7	55·3	66·6	43·0	26	72·5	13	59·0	57·5	81	89	6·7	5·5	2·32	·36	27	17	0	1	7	0	2	0	2	6	5	20	13	6	8
Margate	·979	65·9	60·3	63·1	55·2	71·6	45·6	26	81·3	9	60·1	57·6	69	83	6·6	5·6	1·37	·25	25	15	0	4	10	0	2	1	2	9	10	24	8	2	4
Marlborough	·965	63·1	58·3	60·7	53·1	69·4	40·2	26	78·0	3	58·9	56·4	76	88	8·8	6·0	3·09	·42	13, 15	21	0	1	16	0	5	0	0	6	9	21	9	2	10
Harestock....	·971	62·2	57·4	59·8	52·5	68·6	39·3	26	77·6	8	57·9	55·5	75	88	8·0	5·5	2·27	·87	11	17	0	1	12	0	2	0	0	3	11	19	8	4	15
Norwood	·970	65·0	60·5	62·7	54·0	72·9	43·0	26	84·1	4	59·8	57·3	71	80	6·8	5·5	2·66	·61	26	19	0	1	8	0	0	0	1	0	14	18	11	3	15
Croydon	·972	64·7	60·2	62·4	53·9	71·8	42·4	26	83·0	3	59·0	56·9	69	80	7·0	5·4	1·59	·40	27	16	0	4	10	0	1	0	0	2	12	25	9	6	7
Hillington ..	·937	65·9	58·8	62·3	52·4	73·6	40·8	26	89·0	4	..	..	..	..	6·7	6·9	3·10	·95	5	15	0	0	13	0	2	4	4	5	13	26	2	6	0
Lowestoft	·947	64·6	60·6	62·6	..	70·1	..	..	78·1	4	60·6	58·7	77	88	6·1	5·8	2·87	1·00	21	15	0	3	8	0	2	3	4	4	6	11	20	10	2
Londonderry	·859	61·1	57·1	59·1	52·0	67·7	44·9	19	77·7	4	57·1	54·8	76	85	7·3	7·5	2·65	·31	17	23	0	0	11	0	5	4	5	6	21	11	6	4	0
Dublin	·884	61·2	59·0	60·1	54·8	66·8	47·1	19	70·7	5, 30	56·8	55·8	74	80	7·6	5·2	2·35	·42	22	25	0	1	7	0	2	1	3	13	12	9	15	5	2
Killarney	29·869	60·1	57·0	58·5	52·2	65·1	40·9	1	72·4	30	57·1	55·5	82	90	8·0	8·1	5·83	1·19	5	25	0	0	15	2	0	1	0	3	16	9	14	7	12
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

DAILY MAXIMUM AND MINIMUM TEMPERATURES AND THE DURATION OF BRIGHT SUNSHINE, AS RECORDED IN LONDON AND THE SUBURBS.

Date.	JULY.											AUGUST.										SEPTEMBER.									
	Max. Temp.				Min. Temp.				Sunshine.			Max. Temp.				Min. Temp.				Sunshine.			Max. Temp.				Min. Temp.				Sunshine.		
	Old Street.	Regent's Park.	Greenwich.	Kew Obsy.	Old Street.	Regent's Park.	Greenwich.	Kew Obsy.	Bunhill Row.	Greenwich.	Kew Obsy.	Old Street.	Regent's Park.	Greenwich.	Kew Obsy.	Old Street.	Regent's Park.	Greenwich.	Kew Obsy.	Bunhill Row.	Greenwich.	Kew Obsy.	Old Street.	Regent's Park.	Greenwich.	Kew Obsy.	Old Street.	Regent's Park.	Greenwich.	Kew Obsy.	Bunhill Row.	Greenwich.	Kew Obsy.
	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.
1	75·4	76·3	79·9	75·2	56·1	55·2	54·3	55·9	7·5	10·1	10·4	78·9	79·5	81·1	81·4	58·7	57·7	55·5	56·4	8·5	8·9	8·1	67·7	65·7	72·0	66·1	58·8	57·7	55·4	56·5	2·4	2·7	2·8
2	77·1	78·8	77·0	78·4	56·0	52·7	51·5	51·8	7·6	7·6	13·1	81·1	79·5	85·3	76·6	59·6	57·5	56·0	57·1	8·4	9·6	11·5	66·2	67·2	70·0	65·8	55·9	54·7	51·5	53·2	4·3	4·7	6·1
3	81·1	82·2	84·1	83·6	59·1	55·7	53·0	53·6	8·8	12·8	9·5	71·4	72·1	75·3	69·1	56·1	55·7	52·7	53·5	5·2	4·7	3·8	66·2	68·3	70·2	67·0	54·8	49·1	49·8	47·3	1·4	3·3	5·5
4	84·1	85·1	88·1	83·9	61·6	57·2	56·6	55·8	9·9	10·8	11·2	72·7	73·3	75·3	72·0	53·1	50·7	49·0	50·4	10·0	8·0	12·4	62·0	62·2	60·0	61·5	54·3	52·7	49·0	51·2	..	..	..
5	76·2	76·8	80·4	75·1	63·1	58·6	58·1	57·4	1·7	4·0	2·7	73·6	75·3	79·3	75·4	52·6	56·5	46·1	47·2	7·3	9·0	9·2	65·5	65·7	66·4	64·6	48·1	45·7	46·6	47·3	8·3	7·6	11·0
6	68·7	70·8	75·0	68·6	58·9	56·7	54·6	54·5	3·4	2·6	3·9	77·3	77·8	79·1	76·1	52·3	51·7	49·0	49·5	11·9	10·5	11·1	63·2	62·7	62·1	62·8	48·3	43·1	43·9	43·8	..	..	..
7	74·2	75·3	78·4	76·5	57·1	55·7	55·3	56·0	7·0	6·2	6·9	84·5	84·3	86·8	83·7	57·1	55·9	52·7	53·8	9·2	10·4	9·0	64·2	65·0	63·7	63·1	56·3	55·7	51·4	52·8	2·3	2·2	4·0
8	82·1	84·3	85·5	83·5	58·1	56·1	54·0	55·4	8·5	10·9	9·4	86·9	81·8	88·5	86·9	62·3	60·7	59·2	57·8	9·2	10·4	7·9	65·0	62·5	63·3	61·1	53·3	50·9	50·8	51·6	..	..	0·3
9	81·9	82·3	86·5	78·3	57·1	60·7	59·3	60·0	3·8	3·7	3·8	84·1	84·2	87·0	84·5	62·4	60·7	58·6	59·1	4·5	6·5	3·6	69·0	68·5	69·6	68·4	58·1	57·2	58·3	56·5	..	..	0·1
10	71·8	73·3	75·7	73·1	62·1	58·7	54·5	55·8	1·5	1·5	0·8	81·2	81·3	83·1	81·4	62·6	60·6	59·2	59·3	5·3	6·7	3·7	69·7	69·3	71·4	68·3	59·8	58·9	50·5	55·6	5·2	8·0	5·5
11	69·2	69·8	73·8	69·2	55·6	53·7	52·4	53·9	5·8	5·8	5·6	90·0	91·8	94·2	89·2	63·6	62·9	58·5	59·3	10·6	12·0	12·1	73·7	72·5	75·0	70·1	59·1	56·2	49·7	50·8	6·2	7·0	6·2
12	71·0	72·0	69·3	67·6	58·9	57·7	56·7	55·9	2·3	1·9	1·4	80·1	81·3	84·0	80·6	65·1	64·2	63·2	62·1	6·7	5·5	7·3	74·1	72·5	73·6	70·1	55·5	55·2	53·8	54·9	7·7	7·8	8·1
13	80·1	81·3	83·6	81·6	60·3	58·9	56·6	57·8	4·1	4·0	6·4	76·2	77·9	81·9	76·3	62·4	61·2	58·7	59·6	4·1	3·6	4·1	76·2	74·8	75·1	72·8	56·3	55·9	53·5	54·7	8·1	7·9	7·6
14	71·7	73·3	76·1	71·4	57·6	54·7	53·9	53·8	6·9	6·8	8·0	72·4	72·5	75·2	71·4	59·4	57·9	55·8	57·2	4·8	3·4	5·7	71·2	70·8	71·0	70·2	57·8	57·2	54·5	56·1	1·5	1·4	0·9
15	71·2	71·3	74·3	70·0	58·6	57·6	56·7	56·9	1·9	1·0	1·6	75·2	76·8	79·3	75·4	56·4	53·9	52·7	52·0	8·2	9·4	12·2	75·9	76·3	78·1	73·8	57·4	55·7	54·9	55·9	2·2	3·5	1·2
16	69·2	70·8	72·2	69·2	61·3	61·5	54·6	56·7	4·1	4·0	4·9	78·3	80·3	83·1	79·3	58·3	52·9	51·6	50·8	9·5	12·3	12·3	75·7	78·3	78·6	75·0	63·6	62·7	61·4	60·8	5·9	7·2	8·0
17	72·0	73·3	76·0	69·8	56·1	54·6	53·0	54·2	3·3	2·4	3·8	82·1	84·3	87·1	82·8	57·6	54·7	53·7	51·7	9·6	8·9	10·2	80·6	82·8	83·5	80·5	61·5	60·7	58·0	59·4	6·4	8·4	6·6
18	66·6	68·3	73·5	66·9	53·9	52·2	51·4	51·5	3·6	3·6	4·4	79·6	80·3	84·2	79·2	60·6	54·7	54·5	52·0	5·7	5·3	11·8	80·6	80·5	80·2	77·1	61·3	60·7	57·6	56·2	8·4	8·9	8·5
19	66·9	68·8	68·8	67·2	51·8	49·7	48·5	49·0	8·8	4·9	10·3	70·4	71·1	75·5	71·2	56·5	53·7	51·9	52·7	2·9	2·4	2·8	68·7	67·2	68·3	66·3	56·3	55·0	53·8	54·7	3·4	4·2	4·9
20	66·9	68·8	73·7	69·4	53·9	49·2	47·5	47·9	0·5	2·5	4·1	74·2	76·3	77·0	72·4	53·4	49·7	49·6	49·7	9·8	9·2	11·0	70·2	68·9	70·7	68·9	55·8	54·6	51·6	54·1	6·4	8·4	9·9
21	69·2	70·3	70·5	68·6	58·1	56·7	53·9	55·1	1·0	0·3	1·0	75·7	77·8	75·1	77·8	59·1	53·5	53·5	52·9	2·4	2·8	10·1	69·7	70·5	72·7	69·4	54·3	52·9	50·2	51·7	3·5	4·5	4·2
22	71·4	71·8	75·6	70·3	56·9	52·9	54·1	55·1	0·4	0·3	1·3	80·6	79·5	81·3	78·6	56·3	53·7	51·3	52·2	8·6	10·7	10·2	63·8	63·7	65·1	62·8	53·5	51·9	50·2	51·2	5·7	5·4	7·4
23	69·2	71·3	72·5	69·0	60·9	60·2	53·5	58·3	1·1	1·6	1·3	82·7	81·8	83·5	81·0	58·1	56·7	54·5	54·6	9·0	8·6	8·4	62·2	62·7	64·1	59·3	49·6	46·9	46·9	47·4	3·8	4·8	6·1
24	68·0	67·3	70·6	66·0	51·6	50·1	49·2	49·5	8·3	6·3	8·5	84·7	87·1	88·1	84·7	58·1	55·9	53·6	53·6	11·5	11·1	11·7	62·7	62·7	63·2	62·1	53·3	49·2	47·7	49·2	0·6	1·1	1·2
25	66·4	67·3	70·0	64·2	50·6	48·7	48·0	47·8	3·7	2·4	4·8	65·7	66·2	69·3	66·1	63·6	61·2	50·8	51·5	0·3	0·1	0·5	64·5	64·0	67·0	63·5	50·1	47·9	48·0	46·9	4·6	6·3	9·2
26	61·4	62·4	66·2	63·6	47·2	43·6	42·3	43·7	1·2	1·2	1·7	60·2	60·7	63·7	59·5	48·1	45·4	45·8	46·1	3·4	3·6	3·6	64·4	65·2	66·9	63·5	53·4	50·2	48·8	47·4	0·7	1·3	1·1
27	66·3	69·3	65·6	66·3	52·9	52·5	51·8	53·0	2·0	0·6	2·1	61·2	60·0	59·1	58·1	50·6	48·9	50·6	49·6	..	..	..	61·3	61·5	61·9	59·8	50·3	47·0	46·4	47·4	..	..	0·1
28	68·9	70·5	71·1	69·0	54·9	52·9	53·7	52·9	3·0	2·4	3·2	68·2	68·3	71·5	67·0	53·9	53·5	52·3	53·6	2·8	2·0	4·1	65·3	66·7	67·1	65·4	55·1	53·2	51·8	52·8	0·5	0·7	0·3
29	68·2	67·8	69·4	68·6	55·9	55·6	55·1	55·7	..	..	0·1	66·2	65·2	68·1	63·8	52·9	51·7	51·3	50·9	6·8	7·3	8·6	63·2	63·0	63·1	63·0	58·2	56·0	50·0	51·2	..	..	..
30	71·7	75·3	72·0	74·0	60·7	59·7	59·3	61·0	..	0·1	1·6	67·7	68·3	68·7	67·8	53·7	52·5	51·6	51·8	..	..	..	61·4	61·0	63·3	61·8	46·2	42·1	42·4	41·1	1·0	1·8	2·7
31	74·8	76·5	80·4	77·1	59·6	56·7	55·6	55·9	3·2	4·2	5·3	67·7	67·3	70·1	67·7	57·1	57·5	59·1	59·8	0·1	0·5	0·1	..	..	..	..	..	..	..	..	..	..	..
Means	72·0	73·3	75·3	72·1	57·0	55·1	53·5	54·3	4·0	4·1	4·0	75·8	76·3	78·7	75·4	57·5	55·6	53·6	53·8	6·3	6·6	7·3	68·1	68·1	69·2	66·8	55·2	53·2	51·3	52·0	3·4	4·0	4·3

NOTE.—At Old Street and Regent's Park the thermometers are read at 9 a.m., the maximum temperature being entered to the previous day; while at Greenwich and Kew the temperatures apply to the civil day. At Old Street and Regent's Park the thermometers are mounted in Stevenson screens; at Greenwich on a **Glaisher stand**; and at Kew in the thermograph screen.

Abstract of Meteorological Observations for the Month of AUGUST, 1884.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of					Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.														
Cramlington	29·965	60·2	56·4	58·3	50·0	68·2	39·4	29	80·5	24	57·8	55·2	85	92	6·5	6·4	·82	·27	27	9	0	1	8	0	0	5	2	6	6	25	8	10	0
Scaleby	·946	62·3	56·9	59·6	51·2	69·8	40·5	29	83·0	8	59·8	55·5	85	91	5·7	4·0	1·56	·64	10	10	0	7	6	0	0	1	8	4	6	18	2	2	21
Bounton	·978	61·5	58·1	59·8	50·1	70·9	39·3	26	81·8	11, 24	57·3	55·1	76	82	3·9	4·5	1·08	·32	31	9	0	6	2	0	1	1	3	7	12	15	2	10	11
Scarborough	·985	62·4	59·3	60·9	54·6	67·4	47·0	26	76·2	13	57·3	56·0	71	80	5·2	5·4	1·54	·62	11	6	0	4	8	0	1	0	1	12	9	19	11	5	4
Wakefield	29·993	62·5	59·1	60·8	51·3	72·3	41·2	5	86·4	11	58·2	56·7	75	85	4·8	3·8	1·02	·48	31	10	0	7	5	..	6	8	7	7	6	7	16	5	0
Buxton	30·000	62·0	56·3	59·2	46·8	69·1	36·3	26	82·1	11	57·2	54·6	73	89	6·1	4·6	1·72	·75	31	8	0	3	5	0	0	0	2	12	4	18	15	8	3
Cheadle	30·004	59·8	59·3	59·5	52·1	69·7	41·5	26	83·1	11	56·2	56·8	79	84	5·2	3·7	2·73	1·25	31	9	0	8	3	0	7	0	7	13	7	8	8	9	3
Llandudno	29·979	64·2	60·5	62·4	55·3	69·2	48·0	5	80·8	8	59·3	57·4	73	81	5·3	4·0	1·03	·53	27	7	0	8	7	0	2	1	0	1	7	17	27	7	0
Leaton	....	..	..	..	..	..	40·0	25	86·8	11	..	..	..	..	..	..	1·93	..	..	8	0	..	..	..	..	..	..	..	..	..	..	..	..	..
Churchstoke	30·014	61·8	57·1	59·5	49·9	71·8	40·0	5	86·1	11	57·6	54·8	76	85	5·2	3·3	1·71	·89	31	9	0	10	5	0	0	4	7	6	3	7	20	6	9
Cheltenham	·009	65·1	60·6	62·8	51·5	73·2	35·8	27	87·8	8	61·4	58·5	79	87	5·1	4·7	1·78	·73	31	12	0	7	7	0	3	0	3	3	23	7	12	1	10
Carmarthen	·008	64·3	58·7	61·5	52·1	70·4	41·4	5	81·0	24	59·7	56·6	74	87	5·6	4·8	3·22	1·43	31	13	0	7	6	2	2	1	2	5	5	15	14	4	14
Babbacombe	·036	65·1	59·5	62·3	54·9	69·9	46·5	5	79·7	8	60·2	56·7	73	83	5·5	5·1	·77	·46	31	9	0	6	7	0	4	11	15	0	2	13	11	4	2
Southbourne	·023	65·9	60·7	63·3	53·6	70·8	44·2	27	80·2	10	61·0	57·7	73	82	4·2	3·5	1·36	·45	27	7	0	15	5	1	10	3	9	6	1	10	11	6	6
Margate	·032	67·0	62·5	64·7	57·8	72·3	51·0	29	85·1	2	61·1	58·9	69	79	4·1	2·6	·96	·38	19	7	0	15	5	0	2	1	11	9	6	8	8	4	13
Marlborough	·027	65·9	59·4	62·6	51·0	74·1	40·7	26	87·6	8	60·7	56·9	72	84	5·2	3·7	1·25	·38	31	13	0	8	7	0	3	1	9	4	5	10	23	4	3
Harestock	·024	65·8	59·8	62·8	52·5	73·3	44·2	16	85·6	8	59·5	56·1	67	78	4·3	4·0	1·35	·30	27	11	0	12	9	0	2	1	0	4	2	11	11	4	27
Norwood	·024	66·2	61·2	63·7	53·8	76·0	44·6	26	89·7	11	60·3	57·3	68	77	4·2	3·0	·98	·34	27	9	0	9	4	0	3	0	7	8	7	15	11	2	9
Croydon	·028	66·4	60·8	63·6	52·9	75·5	41·8	26	88·8	11	59·9	57·1	66	78	4·8	2·7	1·07	·42	27	8	0	15	5	0	2	5	5	2	8	16	11	4	9
Hillington	·003	67·8	60·1	64·0	53·2	76·9	38·1	27	93·4	11	62·5	57·7	72	85	5·8	5·1	1·96	1·21	31	9	0	4	9	0	0	4	7	16	6	15	6	8	0
Lowestoft	30·009	65·2	61·2	63·2	56·7	70·4	41·3	27	79·4	2	61·1	58·9	77	86	5·8	4·5	·92	·22	27	11	0	7	6	0	2	4	6	13	7	6	14	10	0
Londonderry	29·930	60·2	56·6	58·4	52·5	67·2	45·0	20, 29	77·2	12	56·8	55·0	80	89	8·2	6·7	3·10	·85	16	19	0	0	14	0	1	3	4	3	14	23	8	3	3
Dublin	·971	61·2	60·2	60·7	55·1	67·8	44·6	29	74·9	12, 17	57·0	56·7	75	79	5·9	5·5	·78	·34	27	8	0	3	5	0	3	4	0	7	13	13	16	2	4
Killarney	29·957	59·8	56·5	58·2	52·3	65·4	42·6	9	72·9	23	56·9	54·8	82	89	7·7	6·9	1·70	·32	28	16	0	1	14	1	2	0	2	2	5	13	14	3	21
Columns	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

Phenomena observed at the Stations during AUGUST, 1884.

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Cramlington	≡	≡	..	..	..	≡	≡	≡	⚡≡	●T≡	⚡≡	≡	≡	..	..	●≡	..	●	●	≡	●≡	≡	≡	●⚡≡	..	●	●	..	●	..	..
Scaleby		..	..	..	..	..	..	..	..	●T	⚡	●	..	..	..	..	●	●	..	..	..	..	..	●	..	●	●	●	●	●	..
Rounton	..	..	..	..	..	..	..	..	⚡	●⚡	●⚡	⚡	..	..	..	..	..	..	●	..	..	..	..	●≺	..	●	●	..	●	●	●
Scarborough	..	..	..	..	..	..	..	..	≺	≺	●≺	⚡	..	..	..	..	..	..	●	..	..	..	..	≺	..	..	●	..	●≺▲	●	●
Wakefield	..	..	..	⚡	..	●	..	..	●⚡	..	..	..	●	..	..	..	●	..	●	..	..	..	..	..	..	..	●	●	●	●	●
Buxton	..	..	..	..	..	..	..	..	≺	≺	≺	..	..	..	..	..	..	..	●	..	..	..	..	●	≺	●	●	●	●	●≺	●
Cheadle	..	..	..	..	..	..	..	..	●▲⚡	⚡	..	●≡	..	..	..	..	..	..	●	..	..	..	..	●	●	●	●	..	..	●	●
Llandudno	..	..	..	..	..	..	..	..	..	●⚡	..	..	..	..	..	..	..	●	..	..	..	..	..	..	..	..	●	●	..	..	●
Leaton	..	..	..	..	..	..	..	..	..	T	T	..	●	..	..	..	..	..	●	..	..	..	..	..	..	..	●	●	●	●	●
Churchstoke	≡	..	..	..	..	..	..	T	..	T≺	⚡	≡	●	..	..	..	..	●	●	..	..	..	..	●	..	..	..	●	●	●	●
Cheltenham	..	..	..	..	..	..	..	≺	●	●⚡	●⚡	..	●	..	..	..	●	●	●	..	..	..	..	..	..	●	●	..	●	●	●
Carmarthen	●	..	..	..	..	..	..	..	●⚡	..	●	●	●	●	..	..	..	●	●	..	..	..	..	..	≺	..	●	●	●	●	●
Babbacombe	..	..	..	..	..	..	..	..	●	⚡ψ	≡	..	..	..	..	..	○≺	●≺	●	○	..	..	..	●⚡≺	⚡○	..	●	●	●	●	●
Southbourne-on-Sea	..	..	..	..	..	..	..	..	..	..	..	..	●	..	..	..	..	..	●⚡	..	..	..	..	●⚡	..	..	●	..	●	●	●
Margate	..	..	..	..	..	..	..	..	..	..	..	●⚡	●	..	..	≺	≡	..	●	..	≡	..	..	..	●≡	..	●	●	..	●	..
Marlborough	..	..	..	..	..	..	..	..	●	T	●	●≺	●	..	..	..	..	..	●	..	..	..	..	●≺	●	●	●	●	●	●	●
Harestock	..	..	..	..	..	..	..	..	●	T	●	..	●	..	..	≡	≺	..	●⚡	..	..	..	..	●≺	●⚡	..	●	●	●	●	●
Norwood	≡	○	..	..	≡	≡	≡	≡	●T	≡	●≡	⚡	●	≡	..	..	..	≡	●	≡	≡	≡	≡	●≡	≡	≡	●≡	●≡	..	●≡	●
Croydon	≡	..	..	..	..	≡	..	T	●T≡≺	T≡	..	..	●	..	..	≡	..	≡	●	≡	≡	≡	..	●	≡	..	●	●	≺	●	●
Hillington	..	..	..	..	..	..	..	..	●T≺	..	..	●▲⚡	●	..	..	..	..	..	●	..	..	..	..	●	●	..	●	..	●T≺	..	●
Lowestoft	..	..	..	..	..	..	..	..	..	●	●≺	●▲⚡	●	..	..	..	..	..	●	..	..	..	..	..	●	..	●≺	●	●T≺	●	●
Londonderry	●	..	●	..	..	..	..	..	≡	●⚡	●≡	●	..	●	●	●	●	●	..	●	○	..	..	●	●	●	●	●	●	●	●
Dublin	..	..	..	..	..	..	≡	..	≡	●≡	⚡≡	●≡	●≺	≺	..	●	..	≡	●	..	..	..	..	..	..	..	..	●≺	●	..	..
Killarney	●	..	..	..	..	..	≡	..	..	●≡	≡	●	●	●	●	●	●	●	..	..	●≡	..	..	..	..	●	●	●	●	●	●

Explanation of the Symbols.—● indicates rain; ✱ snow; ▲ hail ≡ fog; ⚡ thunderstorm; T thunder; ≺ lightning; ○ solar halo; ψ lunar halo; Ψ aurora.

Abstract of Meteorological Observations for the Month of SEPTEMBER, 1884.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of					Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.															
Cramlington..	29·948	54·6	52·7	53·6	47·2	62·8	39·4	4	70·1	22	52·9	51·6	88	92	6·6	5·0	2·13	·44	6	13	0	3	7	0	3	11	1	5	2	19	7	12	0
Scaleby	·941	56·4	53·7	55·1	48·5	65·2	37·4	4	74·5	17	54·0	52·1	84	89	5·8	5·4	3·80	·75	21	19	0	6	7	3	3	2	14	4	4	19	8	1	5
Rounton	·956	55·8	53·4	54·6	47·7	63·4	37·8	4	74·8	17	54·0	52·5	88	93	6·2	5·1	·93	·38	21	8	0	4	5	2	1	8	0	2	11	20	5	5	8
Scarborough..	·976	57·8	55·4	56·6	51·3	62·8	43·8	30	69·2	20	54·8	53·5	81	87	6·1	4·8	1·30	·40	21	15	0	2	3	1	6	6	1	8	2	12	16	8	1
Wakefield	·984	57·2	55·3	56·2	49·1	65·2	34·4	30	73·6	13	55·0	54·0	86	91	7·6	5·8	·91	·26	6	11	0	2	8	1	4	8	9	7	8	7	11	6	0
Buxton	29·993	55·2	51·9	53·5	46·8	62·6	35·8	30	75·1	18	52·9	50·7	85	92	7·3	5·3	3·80	1·10	21	13	0	0	6	0	0	4	5	8	1	12	22	5	3
Cheadle	30·004	55·0	54·3	54·7	49·1	63·2	39·0	30	77·8	17	53·3	52·5	88	88	5·9	3·9	2·41	·80	15	15	0	6	4	1	2	1	14	6	7	13	11	4	2
Llandudno ..	29·971	60·0	57·6	58·8	52·8	64·0	46·0	4	72·0	19	56·9	55·1	81	84	6·1	4·7	1·67	·45	6	16	0	6	10	2	3	4	4	2	4	14	26	3	0
Leaton	....	58·3	53·8	56·0	47·7	65·5	37·8	27	75·0	17, 18	55·7	52·0	84	89	7·8	4·5	1·43	·45	15	17	0	3	9	..	2	6	6	9	6	8	18	5	0
Churchstoke..	30·015	56·8	54·6	55·7	49·1	64·9	35·6	30	74·3	17	54·6	52·8	86	88	8·4	5·7	1·35	·28	6	10	0	0	11	2	0	5	2	12	6	9	11	10	5
Cheltenham ..	·008	58·2	56·3	57·3	50·3	66·2	34·2	30	77·5	17	55·8	54·5	85	88	6·9	4·8	·93	·34	21	15	0	3	8	1	1	3	7	3	13	9	7	4	13
Carmarthen ..	·003	59·9	56·4	58·2	51·3	65·8	38·2	30	78·6	18	56·8	54·3	81	86	6·7	5·8	4·24	·62	2	21	0	3	8	2	1	3	11	5	2	12	13	3	10
Babbacombe..	·041	60·2	56·9	58·5	53·0	65·1	40·2	30	72·9	18	57·1	55·1	81	88	5·8	5·4	1·72	·36	15	17	0	4	8	1	4	13	6	1	2	16	13	4	1
Southbourne	·025	60·7	58·2	59·5	53·4	65·8	41·4	30	75·2	18	57·6	56·0	81	86	6·3	5·1	1·70	·48	3	16	0	4	10	0	6	8	5	0	1	16	9	12	3
Margate	·036	61·1	59·0	60·1	54·7	65·5	45·1	6	80·8	17	57·7	56·9	79	87	5·8	4·0	4·35	1·09	4	10	0	9	8	0	3	4	6	8	7	12	15	2	3
Marlborough	·034	58·6	55·4	57·0	50·1	66·2	32·7	30	79·3	17	55·6	53·7	82	88	7·3	5·5	1·81	·36	1	17	0	4	10	0	0	3	14	5	4	10	13	5	6
Harestock	·028	59·0	56·0	57·5	51·1	65·9	41·4	30	79·4	17	56·2	53·9	83	86	6·0	4·9	1·69	·91	3	17	0	7	10	0	1	6	3	1	4	16	11	4	14
Norwood	·030	59·8	57·4	58·6	52·0	67·8	40·8	30	82·8	17	56·2	55·2	79	86	6·5	4·2	1·76	·77	3	14	0	4	5	0	2	6	10	2	10	7	15	3	5
Croydon	·031	59·5	56·8	58·2	51·6	67·0	41·1	30	80·9	17	56·3	54·9	81	88	6·9	4·1	2·38	·93	3	15	0	6	7	0	2	7	11	1	8	17	9	1	4
Hillington....	·006	60·1	54·7	57·4	49·9	67·4	33·5	30	79·5	17	57·6	53·8	84	94	6·3	4·0	2·43	·84	4	10	0	5	9	0	0	11	4	11	2	15	4	13	0
Lowestoft	30·004	60·0	58·0	59·0	53·2	65·6	42·6	30	77·8	17	57·1	56·1	82	88	5·8	5·2	4·60	2·16	4	13	0	5	10	2	1	6	8	9	4	7	14	11	0
Londonderry	29·927	57·0	53·7	55·4	49·0	63·8	40·5	6	75·4	19	54·5	52·4	84	91	7·2	4·2	3·61	·95	6	18	0	5	9	0	0	5	5	2	13	21	8	4	2
Dublin	·966	57·7	56·6	57·2	52·1	63·8	45·1	5	73·7	9	54·8	54·0	82	83	5·7	3·9	1·21	·31	7	14	0	6	3	2	1	1	7	2	9	14	13	8	5
Killarney	29·970	57·6	54·7	56·1	49·9	62·9	41·0	4	73·5	18	55·1	53·1	84	89	7·3	6·1	4·14	·71	30	20	0	3	10	1	1	0	9	3	4	7	15	7	14
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

DATE.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Cramlington	●T↯	●T	●ϟ≡	≡	..	●	●	●	..	≡	●≡	≡	≡	●≡	●≡	●≡	≡	≡	≡	≡	●ϟ	..	..	●	..	..	..	●	Ψ	..
Scaleby	●	..	●	..	..	●	●	●	●	●	●	..	..	..	●	..	●	≡	..	..	●ϟ	●	●	●	●	●	●	●	..	●
Rounton	●ϟ	..	T	..	..	●	..	●	●	..	..	≡	≡	..	≡	●≡	..	≡	..	..	●ϟ	..	..	●	..	..	..	..	..	●
Scarborough	●↯	ϟ	●ϟ	..	●	●	●	●	●	..	●≡	≡	..	..	●	..	..	●	..	..	●ϟ	..	●	●	..	..	..	●	..	●
Wakefield	●	..	●	..	..	●	..	●	..	..	..	..	..	..	●	..	..	..	..	..	●ϟ	●	..	●	..	●	●	..	..	●
Buxton	●	..	..	..	●	..	●	●	..	≡	..	..	..	..	●	..	..	..	..	..	●▲ϟ	●	●	●	..	●	●	●	..	●
Cheadle	●ϟ	●	≡	●	..	●	●	●≡	..	..	..	..	..	..	●	..	●	..	≡	..	●▲ϟ	●	..	●	..	●	●	●	..	●
Llandudno	●	●	●	..	..	●	●	●	●	●	..	..	..	..	●	..	..	..	..	..	●T	●	●	●	●	..	..	●	..	●
Leaton	●	●	●	..	●	●≡	●	●	●	●	≡	..	..	..	●	..	..	..	..	●	●ϟ	●	..	●	●	●	●	..	..	..
Churchstoke	..	●	..	..	..	●	..	●	..	..	..	≡	T≡	●	●	..	..	..	≡	≡	●≡	●	..	●	..	..	..	●	..	●
Cheltenham	●	●	●	..	..	●	..	●	●	..	..	..	..	●	●	..	..	..	..	..	●	●	..	●	..	●	●	●	..	●
Carmarthen	●	●	..	..	●	●	●	●	●	●	..	..	●	●	●	..	..	..	≡	●ϟ	●ϟ	●▲	●	●	●	●	●	●	..	●Ψ
Babbacombe	●	●ϟ	●○	..	●	●	●	..	..	●	..	..	T	●ϟ	●ϟ≡	●	..	..	..	ϟ	●ϟ≡	●	..	●	○	●	●	●	○	●Ψ
Southbourne	●	●	●	..	●	●	●	●	..	..	..	..	..	●	●	..	..	..	..	..	●	●	..	●	●	●	..	●	..	●
Margate	●	●	●	●	..	●	..	●ϟ	●≡	..	..	..	..	..	..	..	..	..	..	..	●ϟ	..	..	..	..	●	..	..	●	..
Marlborough	●	●	●	..	●	●	●	●	●	..	≡	..	..	●	●	..	..	..	..	..	●≡	..	..	●	..	●	●	●	●	●
Harestock	●	●ϟ	●	..	●	●	..	●	●	..	≡	..	..	●≡	●	..	..	≡	≡	ϟ	●T≡	●	..	●	..	●	●	●	●	●
Norwood	●	●T○Ψ	●○≡	●	..	●	..	●≡	≡	≡	≡	≡	≡	≡	●○≡	○	≡	≡	≡	..	●≡	●	..	●	≡	●	●	●	●≡	≡
Croydon	●Ψ	●ϟΨ	●	●	..	●	..	●	●	≡	≡	≡	≡	≡	●≡	..	≡	≡	≡	..	●ϟ	●	..	●	..	..	●	●	●	●
Hillington	●	●ϟ	●	●	..	●	..	●	●	..	≡	..	..	..	..	..	..	..	..	..	●ϟ	ϟ	..	..	..	..	..	..	●	●
Lowestoft	●	●ϟ	●	●	●ϟ	●	●	●	●	..	●	..	..	..	..	..	..	..	..	..	●ϟ	●	..	..	..	●	..	..	..	..
Londonderry	●	●	●	●	..	●	●	●	..	..	..	..	..	..	..	●	..	..	≡	..	●	●	●	●	●	●	●	●	●	●
Dublin	●ϟ	●	●	..	..	●	●Ψ	●≡	..	≡	≡	≡	..	..	●	●	≡Ψ	..	≡	≡	●	..	●	●	●○	●	..	●	○	●
Killarney	●	●	●	Ψ	●	●	●	●	..	..	..	..	..	..	●	●	..	..	≡	●≡	●	●	●	●	●	●	●	●	●	●

EXPLANATION OF THE SYMBOLS.—● indicates rain; ✱ snow; ▲ hail; ≡ fog; ϟ thunderstorm; T thunder; ↯ lightning; ○ solar halo; Ψ lunar halo. Ψ aurora.

Station.	JULY.												AUGUST.											
	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.						Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.								Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.	
Cramlington .	58·2	84	50·5	64·5	14·0	57·5	40·0	73·8	33·8	8·2	4·01	20	60·2	85	50·0	68·2	18·2	59·1	39·4	80·5	41·1	6·5	·82	9
Stapleton	59·9	82	50·3	65·8	15·5	58·0	39·0	78·4	39·4	7·7	7·86	23	61·5	79	50·6	67·4	16·8	59·0	37·8	79·9	42·1	6·3	1·36	10
Scaleby	60·7	..	51·5	68·4	16·9	60·0	40·7	80·2	39·5	7·6	6·69	22	62·3	85	51·2	69·8	18·6	60·5	40·5	83·0	42·5	5·7	1·56	10
Alston	58·5	78	46·9	65·7	18·8	56·3	32·8	78·8	46·0	8·1	6·56	25	59·7	76	46·3	67·9	21·6	57·1	33·8	81·8	48·0	5·9	·81	10
Seathwaite ..	60·3	73	53·1	65·5	12·4	59·3	41·9	81·0	39·1	8·2	9·75	25	61·3	72	53·2	68·0	14·8	60·6	44·9	82·0	37·1	6·6	3·29	14
St. Mich.-on-Wyre	62·0	78	52·6	67·9	15·3	60·2	43·1	78·0	34·9	7·9	4·90	21	63·5	74	51·8	70·3	18·5	61·1	37·4	84·9	47·5	6·8	2·68	11
Blackpool	61·2	80	53·6	66·2	12·6	59·9	45·2	75·4	30·2	7·0	4·23	24	63·3	72	53·2	68·5	15·3	60·8	43·9	82·9	39·0	5·1	1·25	12
Bolton	60·0	80	52·5	66·3	13·8	59·4	42·7	77·1	34·4	8·2	5·39	21	61·9	76	52·9	70·0	17·1	61·4	42·7	83·3	40·6	5·7	2·43	8
Rounton	60·3	79	50·7	67·4	16·7	59·0	39·8	78·8	39·0	6·5	3·15	25	61·5	76	50·1	70·9	20·8	60·5	39·3	81·8	42·5	3·9	1·08	9
Scarborough ..	61·1	77	54·1	65·6	11·5	59·8	45·0	75·6	30·6	6·4	2·29	18	62·4	71	54·6	67·4	12·8	61·0	47·0	76·2	29·2	5·2	1·54	6
Wakefield	61·8	79	53·0	68·8	15·8	60·9	40·0	80·4	40·4	6·9	2·90	24	62·5	75	51·3	72·3	21·0	61·8	41·2	86·4	45·2	4·8	1·02	10
Hodsock	63·4	71	51·7	70·1	18·4	60·9	40·7	84·4	43·7	6·5	4·20	19	63·4	72	49·9	73·1	23·2	61·5	40·4	85·0	44·6	5·2	2·00	8
Strelley	62·2	76	51·7	69·4	17·7	60·6	41·0	82·5	41·5	6·4	4·14	21	62·7	76	50·8	72·6	21·8	61·7	40·9	85·9	45·0	5·1	2·07	7
Belper	60·7	80	52·6	68·1	15·5	60·4	43·0	79·3	36·3	4·8	3·99	18	60·3	83	51·3	70·5	19·2	60·9	41·9	83·2	41·3	3·2	2·11	11
Cheadle	59·1	86	51·4	65·9	14·5	58·6	42·0	75·1	33·1	7·3	3·23	22	59·8	79	52·1	69·7	17·6	60·9	41·5	83·1	41·6	5·2	2·73	9
Oakamoor	61·4	73	48·9	67·7	18·8	58·3	38·1	77·6	39·5	8·6	3·10	17	62·0	73	46·0	71·4	25·4	58·7	36·0	84·3	48·3	7·2	2·39	6
Buxton	60·4	79	49·1	67·0	17·9	58·1	33·8	75·7	41·9	7·2	5·09	21	62·0	73	46·8	69·1	22·3	57·9	36·3	82·1	45·8	6·1	1·72	8
Macclesfield ..	60·5	76	52·4	67·2	14·8	59·8	42·4	77·4	35·0	5·7	3·83	22	62·5	71	53·3	70·4	17·1	61·8	38·8	83·9	45·1	4·7	2·58	8
Chester	62·9	75	53·1	69·3	16·2	61·2	44·5	78·5	34·0	8·1	4·08	19	64·4	72	53·2	73·3	20·1	63·2	44·9	87·5	42·6	6·9	1·05	8
Leaton	61·7	79	..	..	..	..	40·8	77·5	36·7	7·9	1·94	24	..	..	..	..	..	..	40·0	86·8	46·8	..	1·93	8
Churchstoke ..	60·3	79	50·7	67·3	16·6	59·0	41·1	75·5	34·4	7·4	2·89	20	61·8	76	49·9	71·8	21·9	60·8	40·0	86·1	46·1	5·2	1·71	9
Kenilworth ..	62·7	76	52·3	69·1	16·8	60·7	41·3	79·9	38·6	6·7	3·08	24	64·0	75	51·7	72·4	20·7	62·0	43·1	85·2	42·1	5·7	1·41	9
Burghill	63·1	78	52·4	70·6	18·2	61·5	44·5	78·4	33·9	7·9	2·97	20	65·7	73	51·0	74·7	23·7	62·8	40·6	88·2	47·6	4·5	1·96	9
Ross	63·5	76	53·8	70·1	16·3	62·0	43·3	76·6	33·3	6·5	3·51	21	66·1	72	52·1	74·2	22·1	63·1	40·5	86·0	45·5	3·7	2·02	11
Cheltenham	62·6	83	53·0	68·8	15·8	60·9	39·5	77·2	37·7	7·0	3·00	25	65·1	79	51·5	73·2	21·7	62·4	35·8	87·8	52·0	5·1	1·78	12
Llandudno	62·0	77	54·2	65·3	11·1	59·8	47·5	72·0	24·5	7·8	4·48	30	64·2	73	55·3	69·2	13·9	62·2	48·0	80·8	32·8	5·3	1·03	7
Carmarthen ..	61·6	78	53·5	66·7	13·2	60·1	44·5	73·2	30·7	7·5	5·55	22	64·3	74	52·1	70·4	18·3	61·2	41·4	81·0	39·6	5·6	3·22	13

Station.	SEPTEMBER.										
	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Cramlington .	54·6	88	47·2	62·8	15·6	55·0	39·4	70·1	30·7	6·6	2·13	13
Stapleton	56·2	87	47·3	62·4	15·1	54·9	35·2	70·8	35·6	6·5	3·97	20
Scaleby	56·4	84	48·5	65·2	16·7	56·8	37·4	74·5	37·1	5·8	3·80	19
Alston	54·8	85	45·0	62·2	17·2	53·6	30·8	72·8	42·0	5·2	3·85	20
Seathwaite ..	56·2	80	50·1	63·5	13·4	56·8	38·4	74·2	35·8	6·1	11·74	19
St. Mich.-on-Wyre	58·8	81	49·2	65·5	16·3	57·3	34·4	76·0	41·6	6·8	3·47	17
Blackpool	58·5	84	51·0	64·0	13·0	57·5	37·5	72·3	34·8	5·6	2·73	18
Bolton	56·8	83	49·6	63·5	13·9	56·6	38·6	72·3	33·7	7·2	4·60	16
Rounton	55·8	88	47·7	63·4	15·7	55·6	37·8	74·8	37·0	6·2	·93	8
Scarborough ..	57·8	81	51·3	62·8	11·5	57·1	43·8	69·2	25·4	6·1	1·30	15
Wakefield	57·2	86	49·1	65·2	16·1	57·1	34·4	73·6	39·2	7·6	·91	11
Hodsock	57·4	84	48·9	66·1	17·2	57·5	32·3	78·2	45·9	7·1	·83	12
Strelley	56·6	89	48·9	65·2	16·3	57·0	34·4	77·2	42·8	7·2	1·13	11
Belper	55·2	87	49·8	63·9	14·1	56·8	33·1	74·6	41·5	4·0	2·18	14
Cheadle	55·0	88	49·1	63·2	14·1	56·2	39·0	77·8	38·8	5·9	2·41	15
Oakamoor	57·4	84	45·9	65·3	19·4	55·6	31·3	79·0	47·7	8·3	2·20	10
Buxton	55·2	85	46·8	62·6	15·8	54·7	35·8	75·1	39·3	7·3	3·80	13
Macclesfield ..	56·5	84	50·0	64·2	14·2	57·1	41·9	74·1	32·2	6·5	4·18	15
Chester	59·3	81	50·4	66·9	16·5	58·7	41·6	75·6	34·0	7·6	1·95	14
Leaton	58·3	84	47·7	65·5	17·8	56·6	37·8	75·0	37·2	7·8	1·43	17
Churchstoke ..	56·8	86	49·1	64·9	15·8	57·0	35·6	74·3	38·7	8·4	1·35	10
Kenilworth ..	57·2	86	49·4	65·5	16·1	57·5	33·0	77·6	44·6	7·5	·99	13
Burghill	57·7	87	49·6	67·4	17·8	58·5	32·9	77·1	44·2	7·5	1·08	12
Ross	58·6	84	50·7	67·0	16·3	58·9	34·7	78·6	43·9	6·5	1·24	18
Cheltenham	58·2	85	50·3	66·2	15·9	58·2	34·2	77·5	43·3	6·9	·93	15
Llandudno	60·0	81	52·8	64·0	11·2	58·4	46·0	72·0	26·0	6·1	1·67	16
Carmarthen ..	59·9	88	51·3	65·8	14·5	58·6	38·2	78·6	40·4	6·7	4·24	21

Abstract of Climatological Observations for the Quarter ending September 30th, 1884.

Station.	JULY.												AUGUST.												SEPTEMBER.											
	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.								Means.				Extremes in Month.								Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.		°	o/o	°	°	°	°	°	°	°		In.		°	o/o	°	°	°	°	°	°	°		In.	
Weston-s-Mare	62·6	77	56·4	67·6	11·2	62·0	48·6	75·2	26·6	8·0	2·94	20	64·5	76	56·2	72·4	16·2	64·3	49·5	84·9	35·4	5·0	3·10	16	59·5	82	54·2	66·4	12·2	60·3	43·3	78·2	34·9	7·3	2·03	16
Ilfracombe ..	62·5	80	57·1	66·2	9·1	61·7	51·3	74·5	23·2	7·7	2·65	21	64·8	79	58·6	70·3	11·7	64·4	51·3	83·4	32·1	5·3	3·40	14	60·4	89	57·1	64·3	7·2	60·7	50·0	72·2	22·2	6·3	1·86	14
Bude	61·9	90	54·4	66·8	12·4	60·6	43·1	77·0	33·9	6·9	2·21	16	64·6	81	53·7	71·1	17·4	62·4	41·6	85·0	43·4	4·8	1·66	9	59·7	89	54·5	66·2	11·7	60·3	41·6	81·0	39·4	5·0	1·79	13
Helston	..	..	..	..	..	..	..	..	..	7·3	3·57	24	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Falmouth	62·2	79	55·5	65·6	10·1	60·6	48·0	69·9	21·9	7·2	4·00	23	64·4	78	56·–	68·3	11·6	62·5	49·8	76·0	26·2	5·9	1·83	12	61·1	81	54·7	64·6	9·9	59·6	45·7	73·6	27·9	6·2	3·08	18
Maker	60·8	89	55·1	66·8	11·7	60·9	49·5	75·5	26·0	7·8	3·02	24	63·9	79	56·8	71·3	14·5	64·1	45·6	83·0	37·4	4·3	1·32	11	58·9	85	54·4	65·7	11·3	60·0	41·4	77·7	36·3	6·0	1·94	18
Ashburton	61·1	85	53·9	66·9	13·0	60·4	47·9	72·1	24·2	7·3	3·76	21	64·8	80	55·6	70·6	15·0	63·1	48·4	81·2	32·8	..	1·30	10	59·8	84	52·9	66·0	13·1	59·4	44·5	75·1	30·6	..	2·29	19
Bridgetown....	63·8	76	52·7	70·0	17·3	61·4	42·9	76·5	33·6	7·8	3·46	21	66·4	74	50·8	73·1	22·3	61·9	41·0	84·6	43·6	5·0	1·23	10	61·5	80	51·1	67·6	16·5	59·4	32·2	77·9	45·7	6·5	2·83	18
Torquay	61·7	77	54·9	65·9	11·0	60·4	47·6	71·6	24·0	6·6	2·58	23	64·4	73	54·7	69·3	14·6	62·0	46·1	79·5	33·4	4·3	·71	7	59·9	83	53·8	64·5	10·7	59·2	39·6	72·6	33·0	7·0	1·53	15
Babbacombe ..	62·0	79	53·9	67·0	13·1	60·4	47·0	73·2	26·2	7·0	2·72	22	65·1	73	54·9	69·9	15·0	62·4	46·5	79·7	33·2	5·5	·77	9	60·2	81	53·0	65·1	12·1	59·1	40·2	72·9	32·7	5·8	1·72	17
Teignmouth, B.	61·8	81	55·4	67·1	11·7	61·2	49·0	74·2	25·2	8·0	2·20	19	64·9	78	55·2	70·7	15·5	63·0	47·7	79·4	31·7	5·6	·67	6	60·3	83	54·2	67·3	13·1	60·7	40·2	76·1	35·9	6·4	1·32	13
Teignmouth, W.	62·9	79	54·0	69·2	15·2	61·6	46·8	76·9	30·1	7·7	2·51	22	67·1	70	55·1	72·6	17·5	63·9	48·1	81·6	33·5	5·5	·98	9	61·7	77	53·2	68·2	15·0	60·7	40·0	77·4	37·4	6·1	1·45	15
Sidmouth	61·3	84	54·1	65·3	11·2	59·7	45·1	71·2	26·1	8·6	4·09	24	65·4	77	54·7	69·2	14·5	62·0	45·4	78·7	33·3	5·6	1·48	13	60·2	86	53·8	65·4	11·6	59·6	40·4	75·2	34·8	6·5	1·97	20
Brampford Spk.	62·1	85	54·3	67·8	13·5	61·1	45·3	73·5	28·2	7·5	3·03	21	63·3	80	52·3	70·4	18·1	61·3	43·8	80·1	36·3	5·3	1·75	10	59·1	86	51·9	65·6	13·7	58·8	36·6	74·5	37·9	6·6	1·72	15
Cullompton ..	62·4	76	52·6	68·0	15·4	60·3	42·2	74·8	32·6	7·9	2·94	22	65·5	73	50·4	72·1	21·7	61·2	41·0	84·2	43·2	5·2	1·87	9	59·8	83	51·0	66·8	15·8	58·9	33·0	77·2	44·2	6·7	1·65	18
Stowell	60·7	85	52·9	66·5	13·6	59·7	42·4	73·2	30·8	8·2	4·43	24	63·8	76	51·7	70·5	18·8	61·1	40·9	84·1	43·2	4·8	2·04	14	58·1	85	51·2	64·5	13·3	57·8	35·4	77·7	42·3	7·0	1·91	23
Weymouth	62·2	79	55·9	66·8	10·9	61·3	47·0	71·5	24·5	5·7	1·98	17	65·5	73	56·8	69·8	13·0	63·3	47·3	79·0	31·7	3·7	1·43	10	60·6	80	55·4	65·8	10·4	60·6	46·0	73·5	27·5	5·3	1·40	13
Southbourne ..	62·2	81	55·3	66·6	11·3	61·0	43·0	72·5	29·5	6·7	2·32	17	65·9	73	53·6	70·8	17·2	62·2	44·2	80·2	36·0	4·2	1·36	7	60·7	81	53·4	65·8	12·4	59·6	41·4	75·2	33·8	6·3	1·70	16
Southampton..	62·7	81	52·8	69·6	16·8	61·2	39·6	79·3	39·7	8·2	2·16	20	67·3	68	52·2	74·3	22·1	63·2	43·3	85·6	42·3	4·1	1·34	9	60·6	81	51·4	67·6	16·2	59·5	40·8	80·4	39·6	6·2	2·08	25
Portsmouth ..	64·4	75	56·5	71·6	15·1	64·1	47·6	76·9	29·3	5·8	1·97	17	68·1	67	57·2	75·9	18·7	66·5	47·7	87·8	40·1	3·1	1·51	7	61·4	79	55·5	68·1	12·6	61·8	47·4	75·0	27·6	6·3	2·46	16
Ventnor	62·3	79	56·4	68·0	11·6	62·2	48·7	72·8	24·1	7·4	1·78	13	67·5	69	58·5	72·4	13·9	65·5	47·5	83·0	35·5	3·7	1·13	8	61·6	78	56·8	66·7	9·9	61·7	50·8	76·1	25·3	5·9	3·29	16
Worthing	63·7	81	56·0	67·4	11·4	61·7	44·4	73·0	28·6	7·1	2·31	13	67·7	71	56·6	72·4	15·8	64·5	45·1	83·3	38·2	3·4	1·33	5	61·5	79	55·0	67·4	12·4	61·2	44·6	78·7	34·1	5·1	3·74	14
Hastings	62·4	86	56·4	..	..	..	45·6	..	..	6·0	1·87	18	64·8	81	57·3	..	..	..	48·2	..	..	3·4	1·45	9	60·0	87	55·1	..	..	..	45·9	..	..	5·7	4·03	12
Ramsgate	64·6	74	54·9	70·8	15·9	62·9	44·4	79·3	34·9	6·5	1·46	15	66·6	72	56·6	73·4	16·8	65·0	45·0	82·6	37·6	4·5	·56	6	61·3	81	54·7	66·5	11·8	60·6	44·1	79·5	35·4	5·5	3·66	13
Margate	65·9	69	55·2	71·6	16·4	63·4	45·6	81·3	35·7	6·6	1·37	15	67·0	69	57·8	72·3	14·5	65·0	51·0	85·1	34·1	4·1	·96	7	61·1	79	54·7	65·5	10·8	60·1	45·1	80·8	35·7	5·8	4·35	10
Southend	66·7	82	56·1	..	..	..	45·2	..	..	6·3	1·96	17	68·6	..	56·5	..	..	..	45·6	..	..	5·0	·67	8	61·1	88	54·4	..	..	..	46·1	..	..	6·6	3·76	10

FOR THE QUARTER ENDING SEPTEMBER 30th, 1884.

Station.	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.	
Marlborough ..	63·1	76	53·1	69·4	16·3	61·3	40·2	78·0	37·8	8·8	3·09	21
Harestock	62·2	75	52·5	68·6	16·1	60·6	39·3	77·6	38·3	8·0	2·27	17
Swarraton	61·9	78	51·9	68·8	16·9	60·4	37·8	77·9	40·1	7·2	2·11	17
Tunb. Wells ..	63·6	77	53·2	70·6	17·4	61·9	42·9	81·6	38·7	6·9	1·58	14
Tunbridge	66·3	70	53·7	73·3	19·6	63·5	42·8	85·0	42·2	6·3	2·02	15
Beddington....	65·7	70	52·1	73·4	21·3	62·7	37·9	84·9	47·0	7·2	1·59	16
Croydon	64·7	69	53·9	71·8	17·9	62·9	42·4	83·0	40·6	7·0	1·59	16
South Norwood.	64·4	73	53·3	72·1	18·8	62·7	42·1	84·7	42·6	7·0	1·95	15
Norwood	65·0	71	54·0	72·9	18·9	63·4	43·0	84·1	41·1	6·8	2·66	19
Isleworth	65·5	69	52·9	73·0	20·1	62·9	39·2	85·1	45·9	7·7	2·27	17
S. Knsgn. I.H.E.	64·5	70	56·0	72·3	16·3	64·2	44·8	83·3	38·5	7·3	1·69	15
London, Old St.	64·1	74	57·0	72·0	15·0	64·5	47·2	84·1	36·9	8·5	3·12	17
Regent's Park..	63·7	77	55·1	73·3	18·2	64·2	43·6	85·1	41·5	..	1·85	13
Finchley	63·6	82	..	70·8	..	..	39·9	83·0	43·1	6·6	2·37	15
Watford	64·5	74	53·2	72·0	18·8	62·6	41·1	84·8	43·7	7·0	2·44	17
Throcking	63·2	86	..	..	..	..	42·3	83·4	41·1	6·6	3·41	11
Aspley Guise ..	63·8	78	52·4	71·0	18·6	61·7	43·3	83·0	39·7	7·6	2·89	19
Boston, 4 feet	63·7	73	54·3	70·2	15·9	62·3	42·4	81·1	38·7	3·8	2·09	13
„ 170 „	61·9	76	54·5	67·1	12·6	60·8	44·0	78·0	34·0	..	..	..
Hillington	65·9	..	52·4	73·6	21·2	63·0	40·8	89·0	48·2	6·7	3·10	15
Cromer	65·9	..	53·6	71·5	17·9	62·6	42·8	79·9	37·1	4·7	1·75	12
Somerleyton ..	65·2	72	53·6	72·2	18·6	62·9	45·5	82·7	37·2	5·8	2·32	15
Lowestoft	64·6	77	..	70·1	..	..	..	78·1	..	6·1	2·87	15
Guernsey	61·4	86	56·6	66·8	10·2	61·7	49·4	74·4	25·0	7·5	2·88	19
Londonderry ..	61·1	76	52·0	67·7	15·7	59·8	44·9	77·7	32·8	7·3	2·65	23
Dublin	61·2	74	54·8	66·8	12·0	60·8	47·1	70·7	23·6	7·6	2·35	25
Killarney	60·1	82	52·2	65·1	12·9	58·6	40·9	72·4	31·5	8·0	2·81	25

Station.	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.	
Marlborough ..	65·9	72	51·0	74·1	23·1	62·5	40·7	87·6	46·9	5·2	1·25	13
Harestock	65·8	67	52·5	73·3	20·8	62·9	44·2	85·6	41·4	4·3	1·35	11
Swarraton	65·2	68	50·6	73·7	23·1	62·1	40·2	87·0	46·8	4·1	1·58	8
Tunb. Wells ..	66·9	65	54·4	74·8	20·4	64·6	43·9	87·4	43·5	3·0	·84	7
Tunbridge	68·4	67	52·9	77·6	24·7	65·3	46·0	90·2	44·2	3·4	·75	6
Beddington....	67·3	67	51·2	76·9	25·7	64·1	38·7	91·7	53·0	4·1	·91	9
Croydon	66·4	66	52·9	75·5	22·6	64·2	41·8	88·8	47·0	4·8	1·07	8
South Norwood.	66·1	70	53·3	75·8	22·5	64·6	43·1	89·2	46·1	4·1	·96	8
Norwood	66·2	68	53·8	76·0	22·2	64·9	44·6	89·7	45·1	4·2	·98	9
Isleworth	66·7	68	52·2	77·1	24·9	64·7	44·1	91·2	47·1	3·7	·84	9
S. Knsgn. I.H.E.	66·5	66	56·1	75·6	19·5	65·8	47·0	89·5	42·5	4·3	·87	11
London, Old St.	66·4	69	57·5	75·8	18·3	66·6	48·1	90·0	41·9	5·9	·72	11
Regent's Park..	65·7	75	55·6	76·3	20·7	65·9	45·4	91·8	46·4	..	·78	10
Finchley	66·0	78	51·9	74·7	22·8	63·3	41·7	89·7	48·0	4·6	1·06	10
Watford	67·0	71	53·8	76·0	22·2	64·9	44·5	89·9	45·4	3·3	1·15	10
Throcking	64·6	76	53·9	73·6	19·7	63·7	41·9	87·7	45·8	4·5	1·91	9
Aspley Guise ..	66·0	73	52·6	74·1	21·5	63·3	41·6	88·0	46·4	4·7	1·51	11
Boston, 4 feet	64·2	75	54·0	72·5	18·5	63·2	41·8	87·6	45·8	3·0	1·28	4
„ 170 „	62·9	80	55·4	69·8	14·4	62·6	43·0	84·0	41·0	..	..	..
Hillington	67·8	72	53·2	76·9	23·7	65·0	38·1	93·4	55·3	5·8	1·96	9
Cromer	65·2	76	54·9	71·6	16·7	63·2	41·1	90·9	49·8	3·8	6·14	10
Somerleyton ..	65·3	74	54·8	71·6	16·8	63·2	43·0	81·5	38·5	4·3	1·43	10
Lowestoft	65·2	77	56·7	70·4	13·7	63·6	41·3	79·4	38·1	5·8	·92	11
Guernsey	65·5	77	57·3	71·0	13·7	64·2	49·4	82·9	33·5	4·3	1·06	9
Londonderry ..	60·2	80	52·5	67·2	14·7	59·9	45·0	77·2	32·2	8·2	3·10	19
Dublin	61·2	75	55·1	67·8	12·7	61·4	44·6	74·9	30·3	5·9	·78	8
Killarney	60·8	82	52·3	65·4	13·1	58·9	44·6	72·0	27·4	7·7	1·70	16

Station.	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes in Month.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.	
Marlborough ..	58·6	82	50·1	66·2	16·1	58·2	32·7	79·3	46·6	7·3	1·81	17
Harestock	59·0	83	51·1	65·9	14·8	58·5	41·4	79·4	38·0	6·0	1·69	17
Swarraton	58·2	86	50·6	65·6	15·0	58·1	36·7	79·0	42·3	6·4	2·04	11
Tunb. Wells ..	58·9	84	52·5	65·4	12·9	59·0	44·5	80·1	35·6	6·9	4·15	14
Tunbridge	..	..	..	..	..	..	43·0	81·9	38·9	6·3	4·01	13
Beddington....	59·8	80	50·4	67·7	17·3	59·0	38·0	83·3	45·3	6·6	1·85	14
Croydon	59·5	81	51·6	67·0	15·4	59·3	41·1	80·9	39·8	6·9	2·38	15
South Norwood.	59·9	82	52·3	67·8	15·5	60·0	41·9	83·7	41·8	6·3	2·07	12
Norwood	59·8	79	52·0	67·8	15·8	59·9	40·8	82·8	42·0	6·5	1·76	14
Isleworth	59·9	79	51·4	68·9	17·5	60·1	38·7	84·8	46·1	6·6	1·67	15
S. Knsgn. I.H.E.	60·5	73	54·1	67·8	13·7	61·0	43·6	81·3	37·7	6·4	1·90	14
London, Old St.	60·2	76	55·2	68·1	12·9	61·7	46·2	80·6	34·4	7·6	1·81	17
Regent's Park..	59·2	82	53·2	68·1	14·9	60·7	42·1	82·8	40·7	..	2·04	14
Finchley	59·2	85	50·7	66·8	16·1	58·8	39·7	79·2	39·5	6·3	1·79	12
Watford	58·4	83	51·1	68·2	17·1	59·6	36·3	82·8	46·5	5·6	1·45	12
Throcking	57·3	89	51·1	..	..	..	42·9	81·4	38·5	6·1	1·51	11
Aspley Guise ..	58·7	84	50·4	66·4	16·0	58·4	36·5	78·8	42·3	6·1	1·70	13
Boston, 4 feet	58·7	85	51·0	65·2	14·2	58·1	43·8	75·9	32·1	5·3	1·17	10
„ 170 „	57·8	89	51·9	63·5	11·6	57·7	44·7	73·2	28·5	..	..	..
Hillington	60·1	84	49·9	67·4	17·5	58·7	33·5	79·5	46·0	6·3	2·43	10
Cromer	59·3	88	51·8	65·6	13·8	58·7	38·8	78·9	40·1	4·2	2·32	10
Somerleyton ..	59·9	84	52·5	65·7	13·2	59·1	41·7	80·0	38·3	4·2	4·51	11
Lowestoft	60·0	82	53·2	65·6	12·4	59·4	42·6	77·8	35·2	5·8	4·60	13
Guernsey	61·3	84	56·3	65·8	9·5	61·0	48·8	76·1	27·3	5·3	3·02	13
Londonderry ..	57·0	84	49·0	63·8	14·8	56·4	40·5	75·4	34·9	7·2	3·61	18
Dublin	57·7	82	52·1	63·8	11·7	58·0	45·1	73·7	28·6	5·7	1·21	14
Killarney	57·6	84	49·9	62·9	13·0	56·4	41·0	73·5	32·5	7·1	4·14	20

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WITH

REMARKS ON THE WEATHER

FOR THE QUARTER ENDING

DECEMBER 31ST, 1884.

BY

WILLIAM MARRIOTT, F.R.Met.Soc.

Assistant-Secretary.

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THE METEOROLOGICAL RECORD.

REMARKS

ON THE

WEATHER OVER ENGLAND

FOR THE QUARTER ENDING DECEMBER 31ST, 1884.

THE weather was generally cool during October, mild during the first half of November and December, and cold during the second half of the same months. Rainfall was much below the average during October and November, but rain fell generally from November 30th to December 20th, while dry weather prevailed from the 21st to the 31st. A heavy fall of snow occurred on November 30th.

AIR TEMPERATURE was about the average.

In *October* the mean temperature (mean of maximum and minimum) was 49°·1, and varied from 53°·6 at Ilfracombe, 53°·2 at Ventnor, 52°·8 at Falmouth, 52°·2 at Portsmouth, 52°·1 at Teignmouth and Weymouth, and 51°·9 at Maker, to 43°·6 at Alston, 44°·7 at Buxton, 45°·7 at Stapleton, 46·1 at Princetown, 46°·5 at Macclesfield, 46°·6 at Cheadle, and 46°·7 at Rounton. The weather was cold throughout the month, especially from the 9th to the 13th. The maximum temperatures occurred in the South-west on the 1st to the 3rd, and in the other districts generally on the 16th and 18th. The highest readings were:—On the 1st, 67°·1 at Teignmouth, and 64°·8 at Bridgetown and Maker; on the 2nd, 64°·0 at Ashburton; on the 3rd, 64°·1 at Brampford Speke; on the 16th, 68°·5 at Portsmouth, 68°·2 at Hastings, 67°·0 at Ross, 66°·8 at Southampton, and 66°·4 at Worthing; and on the 18th, 64°·8 at Scarborough, and 64°·0 at Marlborough. The minimum temperatures took place in the North on the 11th and 13th, and in the other districts on the 29th. The lowest readings were:—on the 10th, 24°·0 at Buxton; on the 11th, 20°·8 at Alston, 26°·6 at Stapleton, 27°·5 at Scaleby, and 27°·6 at Macclesfield; on the 13th, 25°·8 at Alston, 26°·2 at Cheltenham, and 26°·9 at St. Michael's-on-Wyre; on the 25th, 27°·1 at Finchley; and on the 29th, 25°·5 at Swarraton, 28°·4 at Burghill and Cullompton, and 28°·8 at Harestock. The mean daily range of temperature was 18°·1.

In *November* the mean temperature was 42°·4, and varied from 48°·0 at Ilfracombe, 47°·5 at Falmouth, 46°·4 at Ventnor, 45°·9 at Teignmouth

THE METEOROLOGICAL RECORD.

REMARKS

ON THE

WEATHER OVER ENGLAND

FOR THE QUARTER ENDING DECEMBER 31ST, 1884.

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In *October* the mean temperature (mean of maximum and minimum) was 49°·1, and varied from 53°·6 at Ilfracombe, 53°·2 at Ventnor, 52°·8 at Falmouth, 52°·2 at Portsmouth, 52°·1 at Teignmouth and Weymouth, and 51°·9 at Maker, to 43°·6 at Alston, 44°·7 at Buxton, 45°·7 at Stapleton, 46·1 at Princetown, 46°·5 at Macclesfield, 46°·6 at Cheadle, and 46°·7 at Rounton. The weather was cold throughout the month, especially from the 9th to the 13th. The maximum temperatures occurred in the South-west on the 1st to the 3rd, and in the other districts generally on the 16th and 18th. The highest readings were:—On the 1st, 67°·1 at Teignmouth, and 64°·8 at Bridgetown and Maker; on the 2nd, 64°·0 at Ashburton; on the 3rd, 64°·1 at Brampford Speke; on the 16th, 68°·5 at Portsmouth, 68°·2 at Hastings, 67°·0 at Ross, 66°·8 at Southampton, and 66°·4 at Worthing; and on the 18th, 64°·3 at Scarborough, and 64°·0 at Marlborough. The minimum temperatures took place in the North on the 11th and 13th, and in the other districts on the 29th. The lowest readings were:—on the 10th, 24°·0 at Buxton; on the 11th, 20°·8 at Alston, 26°·6 at Stapleton, 27°·5 at Scaleby, and 27°·6 at Macclesfield; on the 13th, 25°·8 at Alston, 26°·2 at Cheltenham, and 26°·9 at St. Michael's-on-Wyre; on the 25th, 27°·1 at Finchley; and on the 29th, 25°·5 at Swarraton, 28°·4 at Burghill and Cullompton, and 28°·8 at Harestock. The mean daily range of temperature was 13°·1.

In *November* the mean temperature was 42°·4, and varied from 48°·0 at Ilfracombe, 47°·5 at Falmouth, 46°·4 at Ventnor, 45°·9 at Teignmouth

and Torquay, 45°·7 at Maker, 45°·5 at Llandudno and Weymouth, 45°·4 at Babbacombe, 45°·3 at Ashburton, and 45°·0 at Bude, to 37°·1 at Alston, 38°·1 at Buxton, 38°·7 at Stapleton, 39°·4 at Newton Reigny 40°·0 at Oakamoor, 40°·1 at Scaleby, and 40°·2 at Cheadle and Throcking. The weather was mild from the 1st to the 18th, but cold from the 14th to the end of the month. The maximum temperatures occurred on the 1st, 2nd, 5th and 7th. The highest readings were:—On the 1st, 61°·2 at St. Michael's-on-Wyre, 61°·0 at Chester and Llandudno, and 60°·9 at Ross; on the 2nd, 61°·7 at Ventnor, 61°·6 at Portsmouth, and 60°·8 at Southampton; on the 5th, 61°·3 at Ramsgate, 61°·1 at Bridgetown, and 60°·9 at Teignmouth; and on the 7th, 62°·4 at Hastings, 60°·5 at Norwood and Tunbridge, and 60°·4 at Croydon. The minimum temperatures took place in the South-east on the 25th, and in the other districts on the 30th. The lowest readings were:—On the 24th, 18°·2 at Alston; on the 25th, 20°·2 at Beddington, 21°·2 at Strathfield Turgiss, and 21°·7 at Aspley Guise; on the 29th, 17°·0 at Alston; and on the 30th, 16°·7 at Alston, 18°·0 at Rounton, 18°·6 at Cramlington, 20°·4 at Buxton, and 20°·5 at Cheltenham and Marlborough. The mean daily range of temperature was 10°·4.

In *December* the mean temperature was 40°·3, and varied from 45°·1 at Ilfracombe, 45°·0 at Falmouth, 43°·8 at Bude, 43°·7 at Ventnor, 43°·6 at Torquay, 43°·5 at Weymouth, 43°·2 at Maker, 43°·1 at Teignmouth, and 42°·6 at Sidmouth and Weston-super-Mare, to 33°·8 at Alston, 35°·7 at Buxton, 36°·2 at Stapleton, 36°·6 at Newton Reigny, 37°·5 at Cheadle and Cramlington, 37°·6 at Bolton and Macclesfield, and 37°·7 at Oakamoor. The weather was mild from the 1st to the 14th, but cold from the 15th to the end of the month. The maximum temperatures occurred in the South-east on the 3rd, and in the other districts on the 13th and 14th. The highest readings were:—On the 2nd, 55°·8 at Sidmouth; on the 3rd, 56°·0 at Margate, and 55°·9 at Cullompton; on the 7th, 55°·9 at Cullompton, and 55°·5 at Bude; on the 10th, 55°·7 at Hastings; on the 13th, 57°·7 at Burghill and Hodsock, 56°·3 at Churchstoke, 56°·2 at Ilfracombe, and 56°·1 at Brampford Speke; and on the 14th, 56°·5 at Stapleton. The minimum temperatures occurred generally between the 23rd and 31st. The lowest readings were:—On the 1st, 21°·3 at Oakamoor; on the 23rd, 15°·0 at Alston; on the 24th, 14°·8 at Alston; on the 26th, 15°·0 at Alston, 19°·0 at Newton Reigny, and 21°·5 at Scaleby; on the 27th, 19°·0 at Buxton, 21°·5 at Wakefield, and 22°·1 at Chester; on the 29th, 21°·9 at Seathwaite; and on the 31st, 23°·3 at Hodsock, 23°·4 at Kenilworth, 23°·6 at Aspley Guise, and 23°·8 at Cheltenham and Cromer. The mean daily range of temperature was 8°·6.

Atmospheric Pressure was above the average.

In *October* the mean pressure (reduced to sea level) was 30·07 ins. The highest readings were in the South-west, and the lowest in the North. The maximum occurred on the morning of the 5th, the highest reading being 30·732 ins. at 9 a.m. at Churchstoke. The minimum took place in the South on the 9th, in the East on the 10th, and in the North on the

28th; the lowest readings being 29·244 ins. at 9 p.m. on the 10th at Lowestoft, and 29·057 ins. at 9 a.m. on the 28th at Cramlington.

In *November* the pressure was higher than in the preceding month, the mean being 30·16 in. The highest readings were in the South, and the lowest in the North. The maximum occurred in the South on the 10th, in the North on the 14th, and in the West on the 19th: the highest readings being 30·580 ins. at 9 a.m. on the 10th at Bennington; 30·608 ins. at 9 a.m. on the 14th at Newton Reigny; and 30·645 ins. at 9 a.m. on the 19th at Llandudno. The minimum took place in the North on the 4th, and in the Southern districts on the 28th and 29th: the lowest readings being 29·333 ins. at 9 p.m. on the 4th at Scaleby, and 29·648 ins. at 9 a.m. on the 29th at Lowestoft.

In *December* the pressure was much lower than in the previous month, the mean being 29·85 ins. The highest readings were in the South, and the lowest in the North. The maximum occurred in the North and West on the 22nd, and in the South-east on the 31st. The highest readings were 30·404 ins. at 9 a.m. on the 22nd at Newton Reigny, and 30·374 ins. at 9 p.m. on the 31st at Margate. The minimum took place in the North on the 4th, and in the other districts on the 29th; the lowest readings were 28·929 ins. at 9 a.m. on the 4th at Newton Reigny, and 28·748 ins. at 9 a.m. on the 20th at Lowestoft.

RAINFALL was below the average.

In *October* both the rainfall and number of rainy days were considerably below the average. The monthly falls varied from 10·61 ins. at Seathwaite, 4·22 ins. at Princetown, 3·98 ins. at Somerleyton, 3·96 ins. at Carmarthen, 3·93 ins. at Buxton, 3·79 ins. at Bolton, 3·82 ins. at Lowestoft, 2·85 ins. at Alston, 2·79 ins. at Margate, 2·78 ins. at Ramsgate, and 2·71 ins. at Cromer, to 0·61 in. at Weston-super-Mare, 0·80 in. at Teignmouth, 0·82 in. at Torquay, 0·83 in. at Strathfield Turgiss, 0·85 in. at Harestock, 0·87 in. at Brampford Speke, 0·88 in. at Strelley, 0·90 in. at Babbacombe, 0·92 in. at Swarraton, and 0·93 in. at Burghill, Sidmouth, and Southampton. Rain fell generally on the 2nd, 8th to 18th, and 28th to 30th. Falls exceeding 1 inch were registered as follows:—On the 9th, 1·07 in. at Hastings; on the 10th, 1·82 in. at Somerleyton, 1·65 in. at Lowestoft, 1·28 in. at Carmarthen, 1·24 in. at Cromer, and 1·18 in. at Hillington; on the 25th, 2·03 ins. at Seathwaite; on the 27th, 1·20 in. at Seathwaite; and on the 29th, 1·11 in. at Seathwaite. Thunderstorms occurred on the 9th, 10th, and 12th. Hail fell on the 3rd, 10th to 12th, and 26th to 28th. Snow fell on the 9th to 11th.

In *November* the rainfall and number of rainy days were below the average. The monthly falls varied from 6·50 ins. at Seathwaite, 4·22 ins. at Princetown, 3·17 ins. at Carmarthen, 3·08 ins. at Stapleton, 2·89 ins. at Alston, 2·75 ins. at Ashburton, and 2·74 ins. at Buxton, to 0·53 in. at Ventnor, 0·54 in. at Portsmouth, 0·75 in. at Southend, 0·88 in. at Hodsock and Tunbridge, 0·90 in. at Tunbridge Wells, 0·91 in. at Southbourne and 0·98 in. at Wakefield. The weather was showery from the 1st to the 9th, 19th to 20th, and 27th to 30th. Falls exceeding 0·75 in. were registered as follows:—On the 1st, 1·43 in. at

Seathwaite; on the 2nd, 0·75 in. at Princetown; on the 4th, 0·94 in. at Alston, 0·81 in. at Newton Reigny, and 0·77 in. at Seathwaite; on the 7th, 1·04 in. at Stapleton; on the 8th, 1·04 in. at Seathwaite; on the 27th, 1·08 in. at Seathwaite; and on the 30th, 0·84 in. at Finchley, 0·83 in. at Carmarthen, 0·80 in. at Worthing, 0·76 in. at Regent's Park, and 0·75 in. at Watford. Snow fell on the 20th to 25th, and 28th to 30th. The fall on the 30th was very heavy in the South-east. Hail occurred on the 17th, 18th, 20th, and 27th to 29th. A thunderstorm was experienced at Cramlington on the 20th.

In *December* the rainfall and number of rainy days were in excess of those of the previous month. The monthly falls varied from 19·09 ins. at Seathwaite, 10·59 ins. at Princetown, 7·32 ins. at Ashburton, 6·48 ins. at Carmarthen, 6·32 ins. at Alston, 6·22 ins. at Bude, 6·17 ins. at Buxton, and 6·01 ins. at Bolton and Bridgetown, to 1·45 in. at Hodsock, 1·86 in. at Boston, 1·87 in. at Rounton, 1·90 in. at Southend, 1·96 in. at Burghill, and 1·99 in. at Chester. Rain fell generally from the 1st to the 19th. At Seathwaite falls exceeding 1 inch occurred on nine occasions, the heaviest being 2·54 ins. on the 10th, and 2·76 ins. on the 12th. At the other stations falls exceeding 0·75 in. were registered as follows:—On the 4th, 0·75 in. at Princetown; on the 5th, 1·20 in. at Bude, and 0·89 in. at Carmarthen; on the 6th 1·50 in. at Princetown; on the 7th, 0·98 in. at Alston, 0·89 in. at Princetown, 0·86 in. at Newton Reigny, 0·78 in. at Worthing, and 0·75 in. at Ilfracombe; on the 8th, 0·75 in. at Princetown; on the 10th, 0·97 in. at Alston; on the 11th, 0·92 in. at Hastings, 0·76 in. at Princetown; on the 12th, 1·07 in. at Alston; on the 14th, 1·00 in. at Buxton, 0·78 in. at Bolton and Macclesfield, and 0·77 in. at Princetown; and on the 18th, 0·83 in. at Ashburton. Thunderstorms occurred on the 4th, 5th, 18th and 19th. Hail fell on the 1st, 3rd to 6th, 8th, 9th, 15th, 17th to 21st, 24th and 25th. Snow occurred on the 1st, 2nd, 4th, 9th, 15th to 26th, 30th and 31st.

Wind. In *October* the direction of the wind was North-west from the 1st to 4th, North-east from 5th to 7th, West from 8th to 19th, North-east from 20th to 27th, and South-west from 28th to 31st. Gales occurred generally on the 26th and 28th.—In *November* the direction of the wind was variable from the 1st to 3rd, South-west from 4th to 9th, North-east from 10th to 17th, North or North-west from the 20th to 26th, and variable from the 27th to 30th.—In *December* the general direction of the wind was South-west from the 1st to 18th, North-west from 19th to 21st, North-east from 22nd to 26th, and East from 27th to 31st. Gales or strong winds were of frequent occurrence.

Fog prevailed on *October* 2nd, 4th to 9th, 11th to 17th, 20th to 25th, 29th and 30th; *November* 1st to 4th, 6th, 7th, 10th to 20th, 22nd to 26th, and 28th to 30th; *December* 1st, 2nd, 9th to 12th, 16th, 22nd to 25th, 27th, and 29th to 31st.

Halos were seen on *October* 2nd, 3rd, 9th, 25th, 28th and 29th; *November* 1st to 4th, 6th, and 26th to 29th; and *December* 1st, 2nd, 5th and 31st.

Influence of Forests on Temperature.

As the result of a series of observations made at seventeen forest meteorological stations in Prussia, Professor Müttrich has arrived at certain definite conclusions respecting the influence of the forest on temperature, which may be stated as follows:—1. The forest exercised a positive influence on the temperature of the air; 2. The daily variations of temperature were lessened by the forest, and in summer more than in winter; 3. The influence of the leafy forest was in summer greater than that of the pine forest, while in winter the tempering influence of the pine forest preponderated over that of the disfoliaged forest. An attempt to determine the influence of the forest on the mean annual temperature led to no sure results.—*Science.*

DURATION OF BRIGHT SUNSHINE.

Station.	Total amount.				Greatest amount on one day.				No. of days on which no Sunshine was registered.			
	Oct.	Nov.	Dec.	Year.	Oct.	Nov.	Dec.	Year.	Oct.	Nov.	Dec.	Year.
	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.				
Newton-Reigny ..	75	47	24	1255	7·3	5·2	3·3	16·0	3	11	14	74
Blackpool	74	35	11	1190	7·5	4·9	3·5	13·2	6	14	24	102
Hodsock	77	42	15	1233	8·0	6·0	3·3	13·7	6	13	20	83
Strelley	69	39	15	1168	7·5	6·1	3·2	13·5	8	10	19	87
Buxton	48	33	8	..	7·5	7·3	1·5	14·0	14	16	24	..
Churchstoke	93	41	23	..	9·0	6·5	4·9	13·6	6	11	14	77
Llandudno ...	66	..	..	..	7·4	6·2	..	12·9	8	15	..	..
Cullompton	80	26	8	1300	8·8	5·9	3·8	13·2	6	13	24	96
Southbourne	106	43	20	1406	7·6	7·5	4·6	13·5	2	8	18	87
St. Leonard's....	109	65	27	1615	9·3	5·5	4·2	13·8	4	7	19	71
Marlborough	100	30	19	1250	7·8	6·3	4·0	13·7	2	11	19	83
Harestock	113	40	21	1381	8·1	7·4	4·4	13·6	2	10	16	71
Croydon	72	22	8	1212	7·3	5·8	3·1	13·0	4	20	25	94
Kew Observatory	86	43	24	1318	8·7	6·7	3·7	13·4	5	13	19	85
Greenwich	59	39	13	1115	6·8	6·2	2·9	13·4	5	13	21	92
London, Bunhill Row	47	15	1	930	6·3	4·6	0·1	12·5	6	17	27	119
Aspley Guise	87	44	14	1286	8·0	7·0	3·0	13·4	5	14	19	87
Hillington	94	41	14	1449	7·2	6·1	3·2	13·5	2	13	22	84

TEMPERATURE OF THE SOIL AT 9 A.M.

Station.	Depth below the Surface.	October.			November.			December.			Year.		
		Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.
		°	°	°	°	°	°	°	°	°	°	°	°
Newton-Reigny	3 ins.	46·8	51·0	40·5	40·3	49·0	33·2	36·6	44·4	32·0	..	..	..
Aspley Guise ..	3 ,,	48·8	54·9	42·2	41·3	49·5	33·8	37·9	45·1	33·2	50·4	73·0	33·2
Babbacombe ..	6 ins.	52·2	58·8	47·1	46·7	53·7	38·2	42·5	48·4	38·0	52·4	68·3	38·0
Southampton	6 ,,	50·6	56·9	45·3	44·6	51·6	36·3	41·7	48·0	37·2	51·6	70·7	36·3
Marlborough ..	6 ,,	48·0	53·8	42·1	42·0	50·2	34·3	39·0	46·1	34·1	50·0	70·2	34·1
Croydon	6 ,,	49·5	56·5	44·1	42·3	50·6	34·4	40·1	47·4	36·2	50·1	69·8	34·4
Aspley Guise ..	6 ,,	49·4	54·9	44·0	42·2	49·1	35·1	38·5	45·0	34·0	50·5	70·9	34·0
Newton-Reigny	1 ft.	48·9	52·8	45·0	43·0	48·2	37·9	38·5	41·9	35·2	..	..	..
Rounton	1 ,,	49·2	53·2	45·5	44·0	49·0	39·0	39·0	43·5	36·5	48·5	63·5	36·5
Hodsock	1 ,,	50·6	54·7	46·5	44·3	50·1	38·0	39·7	44·9	37·0	49·9	65·8	37·0
Strelley	1 ,,	49·2	53·2	45·2	43·9	49·2	38·3	39·5	43·3	36·8	48·7	63·9	36·8
Cardiff.....	1 ,,	51·9	56·2	48·9	45·9	52·1	39·4	42·2	48·2	38·0	51·0	66·0	38·0
Babbacombe ..	1 ,,	54·1	59·5	50·6	48·5	53·4	42·2	43·9	48·3	39·6	53·4	68·0	39·6
Cullompton ..	1 ,,	51·8	56·4	48·2	46·3	51·8	40·5	42·1	46·5	38·2	51·7	67·0	38·2
Stowell	1 ,,	53·0	58·1	49·4	46·8	52·3	40·3	42·2	46·8	37·8	..	..	..
Southampton	1 ,,	52·0	57·3	48·4	46·5	51·4	39·7	43·0	47·3	39·3	52·0	68·0	39·3
Worthing	1 ,,	52·8	60·2	48·3	46·0	53·2	38·7	42·6	47·6	38·4	52·6	71·0	38·4
Marlborough ..	1 ,,	50·0	55·2	45·5	44·0	50·1	37·3	40·2	45·3	36·2	51·0	69·3	36·2
Harestock	1 ,,	50·6	55·6	46·9	45·0	50·5	38·8	41·6	46·3	37·5	49·7	65·5	37·5
Croydon	1 ,,	50·8	57·2	46·5	43·8	50·4	36·2	40·9	46·3	36·5	50·8	69·0	36·2
Norwood	1 ,,	50·4	56·3	46·1	43·8	49·5	36·9	40·7	45·6	36·8	50·2	67·1	36·8
Isleworth	1 ,,	50·7	56·1	45·2	43·4	50·3	35·8	40·5	46·9	36·0	50·7	69·1	35·8
S. Kensington	1 ,,	50·9	56·6	46·0	44·1	50·0	36·9	41·0	46·9	36·3	..	..	..
Regent's Park	1 ,,	50·4	55·5	45·5	43·9	50·5	36·8	40·5	46·5	36·9	50·3	68·5	36·8
Aspley Guise ..	1 ,,	49·4	54·8	44·5	42·6	49·1	35·8	38·7	44·6	34·9	50·5	70·7	34·9
Lowestoft	1 ,,	51·4	57·3	46·0	44·8	49·8	37·2	41·1	45·7	37·0	50·8	68·5	37·0
Marlborough ..	1½ ft.	51·8	57·0	48·2	45·8	50·0	40·0	41·5	45·1	38·2	51·5	68·0	38·2
Newton-Reigny	2 ft.	50·3	53·8	47·9	45·2	48·7	41·1	40·6	42·7	38·0	..	..	..
Margate	2 ,,	54·4	59·2	51·0	48·8	52·5	44·3	44·8	47·3	42·3	..	..	..
Marlborough ..	2 ,,	53·3	58·1	50·2	47·7	50·7	43·0	43·0	45·2	40·5	51·5	65·7	40·5
Harestock	2 ,,	52·4	56·5	49·9	47·6	50·7	43·0	43·4	46·0	40·5	49·9	62·0	40·5
Isleworth	2 ,,	53·5	58·2	49·6	47·2	51·2	42·0	43·4	46·8	40·2	51·7	67·0	40·2
Aspley Guise ..	2 ,,	52·4	57·2	48·3	45·4	50·2	39·7	40·7	44·8	37·6	51·5	68·7	37·6
Lowestoft	2 ,,	52·8	58·0	48·2	46·0	50·6	40·0	41·6	45·0	38·6	51·3	68·5	38·6
Newton-Reigny	3 ft.	50·8	53·9	49·0	46·5	49·0	43·0	41·9	43·0	39·3	..	..	..
Newton-Reigny	4 ft.	50·9	53·1	49·5	47·2	49·3	44·2	42·9	44·2	41·0	..	..	..
Cardiff	4 ,,	54·9	57·2	53·3	52·1	53·2	49·8	48·4	49·6	46·5	51·2	58·7	45·0
Harestock	4 ,,	54·2	56·6	52·4	50·6	52·3	47·7	46·6	47·5	44·9	50·0	58·2	43·7
Regent's Park	4 ,,	55·2	58·8	52·0	49·6	52·0	45·8	44·3	45·5	42·8	50·7	63·0	41·8
Aspley Guise..	4 ,,	54·5	58·1	51·5	49·0	51·5	45·0	44·1	45·5	42·0	51·3	63·8	42·0
Lowestoft	4 ,,	54·3	57·9	51·0	49·0	51·0	45·0	44·3	45·8	42·9	50·8	62·4	42·0

Date.	OCTOBER.											NOVEMBER.											DECEMBER.										
	Max. Temp.				Min. Temp.				Sunshine.			Max. Temp.				Min. Temp.				Sunshine.			Max. Temp.				Min. Temp.				Sunshine.		
	Old Street.	Regent's Park.	Greenwich.	Kew Obsy.	Old Street.	Regent's Park.	Greenwich.	Kew Obsy.	Bunhill Row.	Greenwich.	Kew Obsy.	Old Street.	Regent's Park.	Greenwich.	Kew Obsy.	Old Street.	Regent's Park.	Greenwich.	Kew Obsy.	Bunhill Row.	Greenwich.	Kew Obsy.	Old Street.	Regent's Park.	Greenwich.	Kew Obsy.	Old Street.	Regent's Park.	Greenwich.	Kew Obsy.	Bunhill Row.	Greenwich.	Kew Obsy.
	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.	°	°	°	°	°	°	°	°	hrs.	hrs.	hrs.
1	63·2	62·0	62·1	60·2	51·3	46·9	44·9	47·2	3·4	2·6	5·0	55·9	55·5	54·1	54·5	48·8	44·9	47·0	42·0	0·1	..	..	37·7	37·9	36·4	38·1	30·4	29·2	32·7	34·0	..	..	..
2	62·1	60·4	61·3	61·8	45·4	40·9	39·7	39·7	..	0·1	..	59·6	59·4	61·2	58·9	50·3	49·8	43·8	44·2	0·7	0·3	0·3	54·2	55·8	49·3	49·0	33·2	32·0	32·3	33·0	..	..	..
3	61·2	59·7	60·7	59·3	50·5	48·5	45·5	46·0	5·7	5·0	7·6	49·9	49·3	49·8	48·6	41·5	39·1	34·0	33·5	3·1	5·3	6·7	55·4	55·8	55·1	54·5	35·1	34·2	41·2	43·0	..	..	..
4	59·2	58·7	61·0	57·2	42·2	38·9	39·7	40·1	6·3	6·8	6·1	57·2	56·3	56·2	55·6	39·4	37·0	35·5	32·7	0·5	1·3	1·7	48·7	48·3	51·2	50·2	44·4	42·4	39·5	41·4	0·1	0·8	1·6
5	57·2	56·3	57·9	55·8	43·2	40·4	40·2	37·3	0·4	0·4	0·1	60·5	59·9	60·3	58·8	48·3	47·5	50·2	50·1	4·6	6·2	5·6	53·7	54·7	47·0	47·2	39·4	38·4	37·4	37·6	..	2·8	2·2
6	60·7	60·2	61·0	59·2	47·8	48·2	48·7	48·4	0·5	0·8	0·8	56·2	55·5	56·8	56·2	49·3	48·2	48·8	48·1	..	..	..	54·9	55·3	54·2	54·0	40·7	39·8	47·0	44·8	..	..	..
7	62·4	62·4	62·7	61·5	50·8	50·0	50·0	50·3	4·3	0·7	2·6	60·2	59·7	61·0	58·7	49·3	48·2	42·0	45·2	2·4	3·2	2·4	55·2	55·3	54·1	54·2	47·5	45·9	46·3	45·8	0·1	0·8	1·9
8	58·4	58·2	59·4	58·1	49·1	47·8	42·0	45·7	1·3	2·3	2·1	53·7	53·3	53·9	52·4	41·2	38·1	37·1	34·1	1·5	5·1	5·5	50·7	51·3	54·7	54·2	49·3	48·0	42·2	43·5	..	..	..
9	53·2	54·1	52·9	53·6	42·3	36·2	37·2	35·7	2·2	1·2	2·7	55·4	55·3	56·1	54·7	45·4	42·4	44·1	46·1	..	0·2	0·1	44·0	43·4	43·0	48·8	41·2	38·9	34·6	35·7	..	..	..
10	45·7	45·4	45·6	46·2	44·7	40·1	38·6	35·8	0·3	..	..	55·2	54·8	55·9	53·8	47·8	44·9	46·7	45·9	0·4	2·5	0·7	51·5	48·3	50·8	49·6	37·2	35·0	34·9	34·7	..	0·1	..
11	48·2	47·4	47·1	46·7	38·6	37·1	37·9	38·1	2·3	1·1	6·0	49·5	49·3	50·3	49·4	45·9	44·9	39·8	43·0	0·2	3·6	2·3	51·4	50·3	50·6	51·3	43·7	36·8	44·9	44·9	..	..	..
12	51·2	50·3	50·2	49·5	40·3	38·9	38·9	41·2	2·0	0·4	2·5	49·0	48·3	49·2	49·0	44·7	43·1	44·2	44·1	..	..	..	52·7	51·7	48·1	49·2	43·2	40·4	40·9	40·8	..	..	0·6
13	51·2	50·3	49·7	49·3	38·0	35·5	37·4	35·8	5·4	5·5	8·7	48·4	48·1	48·0	47·3	45·2	43·9	43·4	44·4	..	..	..	55·1	52·5	54·4	54·2	44·0	41·4	47·7	49·1	..	0·3	0·2
14	57·2	56·7	56·7	56·6	41·0	37·9	36·8	37·0	0·4	0·1	1·3	46·2	45·9	46·3	45·8	38·7	37·7	35·0	37·6	..	2·0	..	53·2	53·1	52·5	53·1	51·8	50·2	41·1	43·6	..	..	..
15	57·6	56·8	57·6	56·6	46·7	42·9	43·7	42·9	..	0·2	0·4	43·7	42·6	43·3	42·5	34·7	33·0	32·3	32·7	..	1·3	..	49·2	48·3	49·4	49·1	42·7	41·1	35·3	36·1	..	..	..
16	62·4	62·7	62·1	62·4	49·2	46·7	52·1	51·1	0·1	..	1·2	41·7	40·9	39·9	39·3	35·5	33·0	31·3	32·7	..	..	..	44·0	44·2	43·1	42·6	33·7	33·2	32·1	32·2	..	2·5	3·1
17	59·7	60·2	58·3	59·0	54·3	52·8	53·5	51·3	0·2	..	..	44·0	43·9	44·0	42·8	37·6	35·2	32·4	35·0	0·1	0·2	1·0	43·9	40·6	42·8	42·3	36·3	34·2	32·6	33·1	..	0·7	2·7
18	60·2	59·7	59·8	57·1	52·8	50·6	49·2	49·5	0·5	..	1·2	44·7	44·4	44·3	44·0	37·2	33·8	34·6	34·6	..	0·8	0·9	50·4	50·1	49·2	49·1	33·2	30·0	30·3	31·2	..	..	..
19	61·2	59·2	61·5	60·3	48·3	45·7	45·6	44·9	1·2	2·7	4·0	45·2	45·4	44·7	44·5	37·2	36·2	35·7	36·2	1·1	2·1	3·3	46·7	46·4	45·6	46·5	38·6	37·0	37·9	39·2	..	2·9	3·7
20	53·7	52·2	53·1	54·6	46·1	41·4	43·8	44·0	0·1	..	0·6	45·7	45·3	44·3	44·8	37·7	35·8	35·9	33·3	..	..	1·3	42·0	42·2	46·2	41·7	40·1	38·4	36·5	36·1	..	..	..
21	53·1	52·3	54·4	53·3	48·3	46·1	43·1	43·8	..	0·2	..	43·2	43·3	42·2	43·5	35·5	34·5	35·0	35·0	..	..	..	40·2	40·4	41·0	41·3	37·1	36·5	36·1	36·8	0·1	1·5	1·9
22	57·8	57·4	58·5	57·7	47·5	43·9	42·0	44·6	3·1	6·6	7·1	42·0	42·4	42·0	41·7	33·4	32·8	30·7	32·0	0·1	0·4	1·2	42·2	42·4	42·7	42·4	36·7	36·0	35·1	36·8	0·1	0·9	3·2
23	54·3	54·1	56·5	53·3	41·0	40·9	34·7	35·5	0·8	1·7	0·8	42·0	42·4	41·2	41·6	35·7	34·0	28·7	31·5	0·1	3·2	5·7	39·0	38·4	38·0	39·3	36·5	35·0	34·0	34·0	..	..	..
24	54·0	52·5	53·3	51·8	41·2	40·4	32·1	36·3	..	1·4	..	39·0	38·4	37·4	37·0	33·2	27·0	27·2	29·3	..	..	..	38·2	37·9	38·1	38·4	35·2	33·5	34·3	34·0	..	..	..
25	56·0	52·3	53·1	51·9	37·4	33·2	32·7	34·3	..	1·3	1·0	38·0	36·9	35·1	35·2	30·4	25·0	24·5	25·5	..	..	..	40·2	40·4	39·2	39·9	34·7	32·0	32·3	32·7	..	..	2·1
26	55·8	55·9	56·2	56·6	38·4	35·0	42·5	44·5	..	2·9	5·0	43·8	43·9	42·3	42·7	31·4	27·5	31·3	31·2	..	..	1·2	36·6	36·4	36·0	37·3	35·7	32·0	33·2	33·1	..	..	..
27	60·9	60·2	50·8	50·5	41·8	40·4	39·8	40·9	2·2	3·4	5·9	48·5	48·2	47·2	47·6	34·7	33·0	37·1	36·7	..	..	..	38·2	38·6	36·8	37·8	34·2	33·0	33·6	34·2	..	..	..
28	61·8	61·2	61·7	60·7	45·1	43·9	39·3	41·5	0·3	0·7	0·7	45·2	44·2	45·3	46·7	42·6	40·7	35·0	34·1	..	..	..	38·2	38·4	36·8	38·1	35·7	35·2	34·8	35·8	..	..	..
29	61·7	60·7	52·2	50·6	38·2	35·5	33·5	33·6	0·8	4·1	5·3	39·0	38·6	37·9	38·5	33·2	31·5	30·8	31·0	..	0·9	2·9	37·1	36·6	36·4	37·3	35·7	35·0	33·5	34·0	..	..	..
30	56·2	55·5	56·8	55·1	41·6	37·7	41·6	35·7	0·4	2·0	2·4	38·2	37·6	38·0	36·5	29·7	29·0	28·7	29·5	..	..	..	36·1	35·6	35·1	35·7	33·7	32·9	29·7	29·6	..	..	..
31	57·2	56·8	58·5	55·8	49·0	45·9	43·2	45·0	3·3	5·1	5·4	..	..	..	..	..	..	..	..	..	..	..	42·2	42·9	40·9	42·2	33·2	29·9	26·7	26·3	..	..	0·4
Means	57·2	56·5	56·5	55·6	44·9	42·3	41·6	41·9	1·5	1·9	2·8	48·0	47·6	47·6	47·1	39·9	37·7	36·8	37·0	0·5	1·3	1·4	45·9	45·6	45·1	45·4	38·5	36·7	36·5	37·0	0·0	0·4	0·8

NOTE.—At Old Street and Regent's Park the thermometers are read at 9 a.m., the maximum temperature being entered to the previous day; while at Greenwich and Kew the temperatures apply to the civil day. At Old Street and Regent's Park the thermometers are mounted in Stevenson screens; at Greenwich on a Glaisher stand; and at Kew in the thermograph screen.

Abstract of Meteorological Observations for the Month of OCTOBER, 1884.

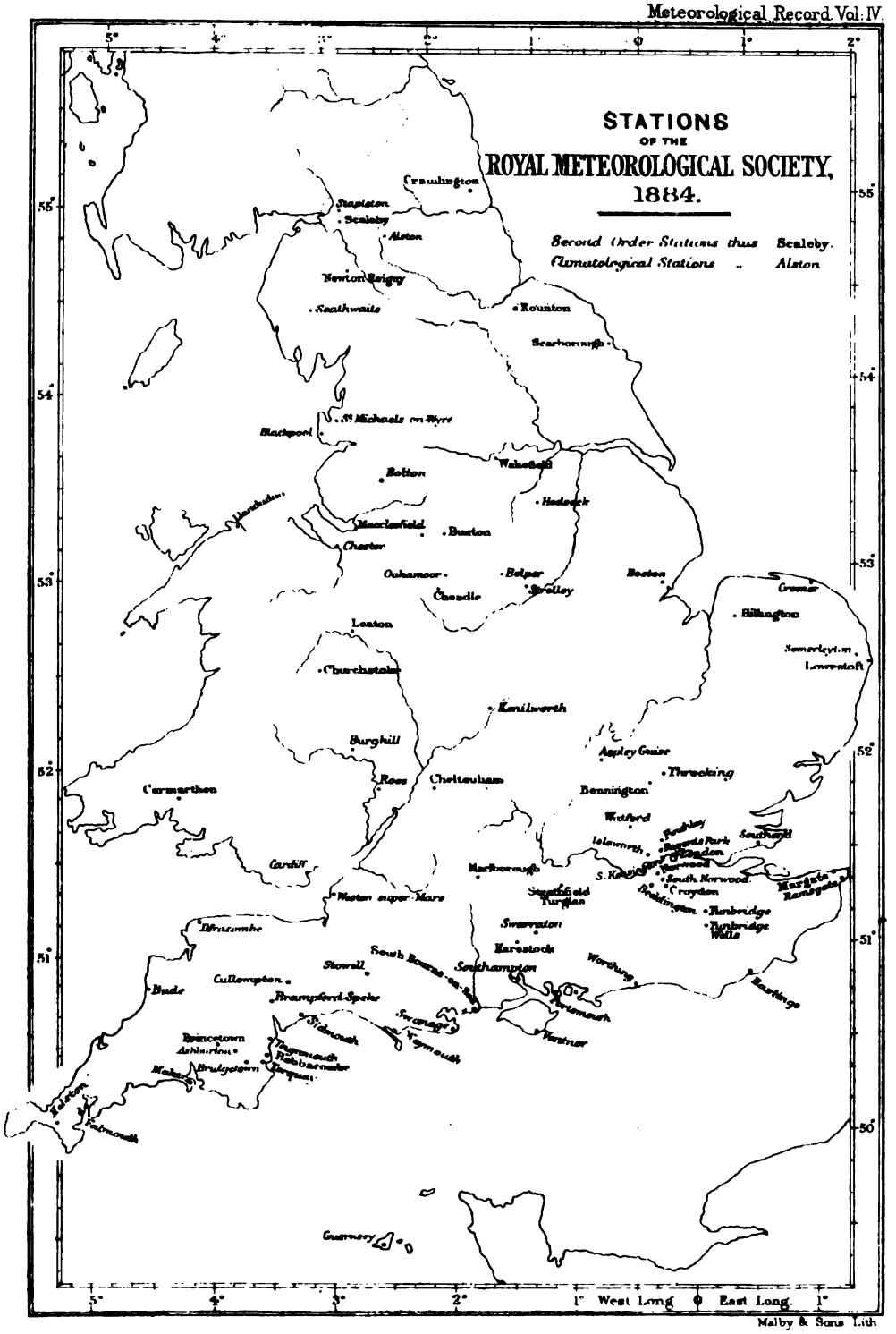
Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature. 9 a.m.	9 p.m.	Mean.	Means of Min.	Means of Max.	Absolute Min. and Max. Min.	Date.	Max.	Date.	Wet Bulb Therm. 9 a.m.	9 p.m.	Relative Humid. 9 a.m.	9 p.m.	Amount of Cloud. 9 a.m.	9 p.m.	Rainfall. Total Fall.	Greatest Fall in 24 hours. Amnt.	Date.	Weather. No. of days of Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	Wind. No. of Observations of N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.															
Scaleby	29·983	48·1	46·6	47·3	41·3	54·7	27·5	11	61·8	5	46·2	45·3	86	90	7·7	6·4	1·69	·40	29	15	2	1	10	8	2	5	2	4	2	26	8	4	9
Newton-Reigny	30·009	46·0	45·8	45·9	40·7	52·8	28·8	13	58·4	6	44·2	44·3	86	89	7·5	7·1	2·14	·42	25	17	2	1	15	1	0	0	1	4	3	10	22	3	19
Cramlington ..	29·967	47·6	45·9	46·8	39·7	54·6	29·2	29	61·6	18, 21	45·8	44·9	87	93	6·0	5·4	1·40	·49	11	12	0	6	7	1	7	3	1	1	3	17	11	19	0
Rounton	30·000	47·7	46·0	46·9	39·6	53·9	29·9	11	60·8	16, 18	45·7	44·9	85	91	6·2	7·0	1·34	·30	11	16	0	2	13	6	3	1	2	2	7	18	6	18	5
Scarborough ..	29·991	49·4	48·7	49·0	44·3	54·7	35·9	29	64·3	18	47·0	47·1	83	88	6·0	6·1	2·08	·65	9	13	0	3	10	0	11	2	0	1	2	9	19	15	3
Wakefield	30·037	48·3	47·5	47·9	40·9	55·0	30·6	9	61·4	31	46·6	46·2	87	90	6·9	6·3	1·29	·35	26	11	0	4	12	3	6	2	3	2	6	10	26	7	0
Buxton	·061	45·5	43·8	44·7	38·3	51·0	24·0	10	57·2	16	43·9	42·7	88	91	7·4	6·0	3·93	·55	26	19	1	2	11	0	0	4	2	2	2	9	13	29	1
Cheadle	·067	45·8	45·7	45·7	41·1	52·2	30·7	11	61·9	16	44·2	44·3	88	89	6·8	6·5	1·51	·25	9, 25	15	1	3	12	4	6	6	4	6	4	5	17	12	2
Llandudno	·057	52·0	51·0	51·5	46·5	55·4	40·2	11	61·8	31	48·8	48·3	79	82	7·6	6·9	1·42	·24	27	18	0	2	14	1	6	2	4	4	1	10	25	10	0
Churchstoke ..	·100	48·1	46·9	47·5	40·5	54·9	32·0	29	62·7	16	46·1	45·3	85	88	8·2	7·2	2·01	·78	9	10	2	0	16	2	2	1	0	11	3	13	16	16	0
Cheltenham ..	·096	48·7	46·4	47·5	39·3	55·3	26·2	13	62·2	2, 18	46·5	44·9	84	88	6·7	6·2	1·11	·40	9	13	0	5	12	4	6	0	1	6	7	9	16	6	11
Carmarthen ..	·115	50·5	48·3	49·4	43·0	56·3	31·6	29	61·4	5	48·4	47·0	85	90	6·8	5·9	3·96	1·28	10	17	0	3	11	1	9	1	2	2	2	3	10	6	27
Princetown	·162	46·8	45·6	46·2	42·0	50·1	32·8	10, 11	54·8	2, 3, 5	45·6	44·7	91	93	6·9	5·7	4·22	·60	9	24	2	1	6	0	3	19	7	7	0	11	0	15	0
Babbacombe ..	·146	52·3	49·5	50·9	45·5	57·0	36·3	11	63·6	1	49·5	47·4	81	85	6·8	5·6	·90	·35	8	13	1	3	10	4	9	8	2	3	2	13	16	8	1
Southbourne ..	·112	51·7	49·1	50·4	43·6	57·5	33·7	13	65·1	16	49·2	47·0	83	85	4·9	4·3	1·29	·75	8	10	0	4	2	1	15	4	3	0	1	6	9	20	4
Margate	·074	50·8	50·1	50·4	45·0	55·6	36·3	29	61·1	28	48·3	47·7	83	83	6·2	5·5	2·79	·76	7	12	0	5	12	0	5	2	1	4	6	12	11	13	8
Marlborough ..	·119	48·0	45·3	46·7	39·6	56·0	30·0	13	64·0	18	46·3	44·3	87	92	6·3	6·6	1·01	·36	9	11	0	4	14	0	4	3	4	3	2	5	16	11	14
Harestock	·111	49·0	46·7	47·9	41·5	56·3	28·8	29	63·7	16	47·0	45·1	85	88	6·4	5·8	·85	·45	9	9	0	4	12	0	5	4	2	2	2	7	11	11	18
Norwood	·096	48·9	47·5	48·2	42·2	56·3	33·0	23	62·5	2, 16	46·6	45·4	84	84	6·5	5·4	1·17	·50	9	12	0	4	9	1	4	3	3	1	3	7	22	9	10
Croydon	·094	48·8	46·8	47·8	41·9	56·0	31·1	23	62·0	16	46·5	44·8	83	85	7·4	4·9	1·20	·56	9	12	0	4	12	0	4	4	2	2	4	11	20	9	6
Bennington ..	·095	48·6	46·3	47·5	41·4	54·9	33·0	25	60·9	1	46·3	44·8	83	88	7·8	5·3	1·38	·53	9	10	0	4	13	0	4	2	2	1	1	9	21	8	14
Hillington	·039	48·9	46·0	47·4	40·8	55·3	30·8	25	62·4	2	47·2	45·2	88	94	7·2	6·6	2·67	1·18	10	11	0	4	14	3	1	9	0	9	1	21	8	13	0
Lowestoft	·020	50·4	48·9	49·7	43·6	56·0	34·0	25	62·5	1	47·9	46·8	83	85	7·2	6·6	3·32	1·65	10	13	0	2	11	2	2	6	1	4	1	7	22	19	0
Londonderry ..	·037	48·8	48·5	48·6	43·3	55·2	35·5	10	63·7	5	46·5	46·8	83	87	8·1	7·4	4·35	·71	31	21	0	1	16	0	6	1	3	2	5	24	10	9	2
Dublin	·084	49·1	49·9	49·5	44·6	55·9	33·8	11	64·5	2	46·7	47·6	83	84	5·1	6·3	·84	·17	8	14	0	5	9	3	3	2	2	1	6	7	22	13	6
Killarney	30·141	51·0	48·8	49·9	43·1	56·4	31·3	25	62·4	5	49·1	47·4	87	90	7·3	6·0	4·53	1·45	31	21	0	2	9	2	5	2	2	0	3	7	10	9	24
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

ABSTRACT OF CLIMATOLOGICAL OBSERVATIONS FOR THE YEAR 1884.

Station.	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Brampford Speke	51·0	85	43·7	57·0	13·3	50·4	25·1	80·1	55·0	7·0	30·10	191
Cullompton	51·3	80	42·6	57·5	14·9	50·0	21·4	84·2	62·8	7·1	31·43	188
Stowell	49·7	84	42·6	55·6	13·0	49·1	21·2	84·1	62·9	7·2	31·79	215
Weymouth	52·1	80	46·5	56·6	10·1	51·6	28·2	79·0	50·8	5·9	24·93	148
Southbourne on Sea ..	51·5	81	44·5	56·4	11·9	50·5	24·3	80·2	55·9	6·0	24·71	146
Southampton.....	51·4	81	42·5	58·1	15·6	50·3	21·9	85·6	63·7	7·0	25·57	187
Portsmouth	52·1	82	45·9	58·9	13·0	52·4	25·8	87·8	62·0	5·3	21·58	162
Ventnor	52·7	79	47·2	57·9	10·7	52·6	29·5	83·0	53·5	6·4	24·91	139
Worthing	52·0	81	45·6	56·8	11·2	51·2	27·0	83·3	56·3	5·8	23·51	126
Hastings	50·9	..	45·5	..	..	..	27·7	..	..	6·0	29·15	179
Ramsgate	51·5	80	44·9	57·1	12·2	51·0	27·0	82·6	55·6	6·4	19·89	140
Margate	51·6	79	45·5	56·6	11·1	51·1	29·1	85·1	56·0	6·4	20·34	146
Southend	51·9	..	44·7	..	..	..	26·9	..	..	6·8	16·56	131
Marlborough	49·6	83	41·6	56·5	14·9	49·1	20·5	87·6	67·1	7·5	27·12	178
Strathfield Turgiss ..	..	..	..	..	..	..	..	..	..	..	21·42	134
Harestock	50·1	81	42·3	56·6	14·3	49·5	21·5	85·6	64·1	7·1	24·28	149
Swarraton	49·6	83	41·5	56·5	15·0	49·0	22·1	87·0	64·9	7·1	24·74	137
Tunbridge Wells	50·0	83	..	..	..	..	24·7	87·4	62·7	6·8	23·42	149
Tunbridge	..	..	..	..	..	..	25·2	90·2	65·0	6·1	21·20	139
Beddington	50·9	79	42·1	58·0	15·9	50·0	20·2	91·7	71·5	6·8	18·36	153
Croydon	50·8	78	43·1	57·7	14·6	50·4	25·2	88·8	63·6	7·1	19·69	149
South Norwood	50·9	80	43·1	57·9	14·8	50·5	24·5	89·2	64·7	7·1	18·97	144
Norwood	51·0	79	43·5	58·2	14·7	50·9	24·0	89·7	65·7	6·7	19·05	163
Isleworth	51·1	78	42·8	58·7	15·9	50·8	23·4	91·2	67·8	6·8	18·72	152
South Kensington....	..	..	..	..	..	..	27·2	89·5	62·3	..	..	..
London, Old Street ..	51·6	77	46·0	58·4	12·4	52·2	29·7	90·0	60·3	8·2	20·68	185
Regent's Park	50·6	80	44·3	58·5	14·2	51·4	25·0	91·8	66·8	..	19·52	147
Finchley	50·0	85	..	56·8	..	..	22·0	89·7	67·7	6·8	22·66	150
Watford	..	..	..	..	..	..	23·7	89·9	66·2	..	22·35	152
Bennington.....	..	..	..	..	..	..	26·0	87·0	61·0	..	20·06	151
Throcking	49·2	87	..	..	..	..	25·1	87·7	62·6	6·5	18·39	138
Aspley Guise	50·4	82	41·8	56·7	14·9	49·3	21·7	88·0	66·3	6·7	18·65	154
Hillington	50·9	..	41·5	57·7	16·2	49·6	22·4	93·4	71·0	7·2	22·53	158
Cromer	50·9	..	43·6	56·6	13·0	50·1	23·8	90·9	67·1	5·9	23·59	137
Somerleyton	50·6	82	43·4	56·3	12·9	49·9	22·9	82·7	59·8	6·3	23·52	152
Lowestoft	50·7	82	..	..	..	..	24·0	79·4	55·4	6·6	22·32	164
Guernsey	..	..	..	..	..	..	31·9	82·9	51·0	..	31·37	..
Londonderry	49·7	82	42·5	56·0	13·5	49·3	26·9	81·1	54·2	7·7	43·33	246
Dublin	50·6	79	45·0	56·1	11·1	50·6	27·3	75·4	48·1	6·5	20·47	187
Killarney	50·7	84	43·1	56·0	12·9	49·6	20·2	73·7	53·5	7·6	63·16	239

Abstract of Meteorological Observations for the Month of NOVEMBER, 1884.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of						Wind. No. of Observations of							
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.														
Scaleby	30·108	39·9	38·5	39·2	34·0	46·2	21·6	30	58·5	7	38·4	37·3	87	89	7·5	5·9	1·25	·34	6	18	2	2	11	4	2	6	12	5	4	15	4	1	11
Newton-Reigny	·126	38·8	37·9	38·4	33·9	45·0	21·9	30	56·5	7	37·4	36·7	88	89	6·2	5·4	2·36	·81	4	16	2	3	7	1	4	0	2	8	8	7	10	8	13
Cramlington ..	·101	40·8	39·4	40·1	34·9	46·3	18·6	30	57·8	1	39·7	38·6	91	93	7·4	6·1	1·94	·28	4	17	4	0	11	0	3	8	1	5	3	11	12	17	0
Rounton	·122	40·9	39·7	40·3	35·2	46·4	18·0	30	57·0	1	39·9	38·7	91	92	6·5	6·3	1·41	·22	18	16	5	4	12	5	3	3	4	9	7	11	2	15	6
Scarborough ..	·117	43·6	43·2	43·4	39·6	47·3	26·8	30	57·0	1	42·1	41·8	88	89	7·2	6·9	2·19	·41	28	18	3	1	13	0	10	7	2	1	3	14	12	6	5
Wakefield	·140	42·2	40·8	41·5	36·6	47·3	23·8	30	59·6	7	41·0	39·7	90	91	7·3	7·3	·98	·24	4	14	1	2	14	2	11	4	7	3	4	13	10	8	0
Buxton	·161	40·4	37·3	38·8	32·3	43·9	20·4	30	54·2	7	38·9	36·3	88	91	6·6	6·3	2·74	·59	27	17	3	3	10	0	0	7	6	3	8	9	13	9	5
Cheadle	·162	39·6	39·4	39·5	35·4	45·0	24·7	30	55·8	7	38·7	38·2	93	90	7·2	5·4	1·86	·37	30	18	4	3	11	3	14	4	4	6	7	6	3	11	5
Llandudno ..	·139	45·7	45·2	45·4	41·0	50·1	29·2	30	61·0	1	43·1	42·6	81	80	8·0	4·9	2·23	·46	28	17	1	2	10	2	11	6	1	3	8	7	16	8	0
Churchstoke ..	·184	41·2	40·2	40·7	34·6	46·9	21·8	30	56·9	7	39·7	38·9	88	89	8·2	6·5	1·53	·39	4	16	4	0	15	1	1	2	6	17	3	8	12	7	4
Cheltenham ..	·171	41·2	40·9	41·1	33·9	47·1	20·5	30	58·2	7	40·0	39·7	90	90	8·0	6·1	1·98	·58	2	20	3	1	13	2	7	2	2	4	13	7	5	4	16
Carmarthen ..	·175	43·6	42·7	43·1	37·1	49·4	26·2	30	57·1	1, 7	42·2	41·4	89	89	7·3	5·9	3·17	·83	30	20	1	5	14	1	8	3	10	3	2	7	6	4	17
Princetown ..	·208	40·6	40·3	40·5	36·5	44·1	28·9	25	52·4	7	40·0	39·7	94	95	7·8	7·1	4·22	·75	2	15	1	0	11	0	0	15	0	13	0	21	0	11	0
Babbacombe ..	·190	45·5	45·2	45·4	40·9	49·9	26·5	30	58·7	5	43·6	43·2	86	85	7·9	7·2	1·55	·36	2	14	1	1	19	3	9	6	7	5	6	14	7	6	0
Southbourne ..	·174	43·3	43·1	43·2	38·1	48·6	24·3	30	60·2	2	41·6	41·4	87	87	6·9	5·8	·91	·26	5	11	0	1	11	1	16	11	3	0	5	7	6	7	5
Margate	·172	43·7	44·4	44·1	40·5	48·4	29·8	30	60·2	5	41·5	41·9	83	81	7·2	6·6	1·03	·26	18	9	0	1	12	0	8	4	5	11	8	5	6	6	7
Marlborough ..	·193	39·6	39·7	39·6	34·5	46·1	20·5	30	57·2	2	38·9	38·9	94	93	7·6	6·5	1·94	·54	30	16	4	1	14	0	12	4	10	1	9	4	6	3	11
Harestock	·180	41·1	40·8	40·9	36·2	47·0	21·5	30	59·4	2	39·8	39·4	90	88	7·8	6·8	1·81	·61	30	11	2	3	17	0	11	3	3	1	6	6	6	3	21
Norwood	·183	41·6	41·6	41·6	36·7	47·4	24·0	25	60·5	7	40·1	40·1	88	88	7·0	6·3	1·30	·41	30	12	3	4	14	0	10	4	7	1	9	4	6	4	15
Croydon	·179	41·0	41·0	41·0	36·1	47·3	25·2	25	60·4	7	39·6	39·7	88	89	7·9	6·6	1·57	·56	30	12	1	3	15	0	10	4	6	2	7	6	7	7	11
Bennington ..	·188	40·7	40·0	40·3	36·0	45·2	26·0	30	57·8	7	39·4	39·0	89	91	8·0	6·5	1·59	·44	5	14	5	3	16	0	6	3	4	4	6	3	10	7	17
Hillington	·149	40·8	40·2	40·5	35·0	46·3	22·4	24	59·2	7	39·8	39·6	91	95	7·5	6·8	2·13	·50	30	19	2	2	13	0	7	4	1	11	9	17	3	8	0
Lowestoft	·130	42·4	43·1	42·7	38·2	47·6	24·0	30	58·8	5	40·8	41·2	87	85	7·1	6·8	1·80	·37	5	19	1	1	10	1	7	3	3	7	1	11	11	17	0
Londonderry ..	·122	42·0	41·6	41·8	36·7	48·2	28·8	18	55·5	12	40·9	40·4	91	90	7·9	6·2	5·07	1·01	4	23	2	2	16	0	6	1	1	5	8	14	12	11	2
Dublin	·153	43·4	43·9	43·6	39·1	48·6	31·1	16	58·6	1	41·4	41·9	85	84	5·8	6·0	1·41	·55	1	14	1	4	8	2	7	0	3	4	6	6	21	11	2
Killarney	30·179	42·0	41·4	41·7	35·0	48·6	21·0	25	56·5	12	40·7	40·3	89	91	7·4	6·0	5·29	1·53	11	20	0	0	11	2	5	4	4	2	6	8	7	5	19
Columns	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33



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Abstract of Meteorological Observations for the Month of DECEMBER, 1884.

Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather. No. of days of					Wind. No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o			In.	In.														
Scaleby	29·742	37·0	38·0	37·5	33·1	42·6	21·5	26	54·0	14	35·5	36·3	87	85	8·2	5·6	3·23	·45	7	17	0	2	13	11	3	2	7	2	2	29	3	1	13
Newton-Beigny	·762	35·8	37·0	36·4	32·6	40·6	19·0	26	52·0	13	34·7	35·7	90	89	7·0	5·5	4·74	·86	7	20	3	1	9	1	2	0	0	13	7	12	16	6	6
Cramlington ..	·726	37·4	37·5	37·4	33·0	42·0	25·0	24	55·2	14	36·0	36·3	88	89	6·8	5·8	2·05	·51	7	18	3	2	9	0	2	2	1	5	5	9	21	17	0
Bounton	·766	37·8	38·2	38·0	33·4	42·1	25·0	23	53·8	13	37·0	37·4	93	93	6·8	6·5	1·87	·44	19	19	4	2	10	4	6	0	1	6	11	25	3	5	5
Scarborough ..	·775	39·6	40·5	40·1	36·3	43·6	28·8	27	53·1	13	38·0	38·8	87	86	7·1	6·1	2·05	·41	19	19	2	1	9	0	7	2	3	2	4	16	17	6	5
Wakefield	·809	39·2	40·2	39·7	35·9	43·9	21·5	27	55·6	13	38·1	39·0	91	90	8·3	6·8	2·37	·37	4	19	0	0	14	1	10	2	6	2	3	13	21	5	0
Buxton	·830	36·1	36·2	36·2	30·9	40·5	19·0	27	52·7	13	35·1	35·4	91	92	7·1	7·2	6·17	1·00	14	19	8	0	14	0	0	9	2	6	1	24	7	13	0
Cheadle	·844	36·7	37·3	37·0	33·2	41·8	25·5	27	52·4	13	35·8	36·5	91	93	7·4	6·1	2·92	·43	18	18	6	1	12	5	6	3	8	6	6	17	10	3	3
Llandudno ..	·816	42·3	42·0	42·2	38·0	45·9	27·0	29	55·0	14	40·2	40·0	83	84	7·8	6·1	2·92	·65	14	17	0	0	14	2	6	4	5	3	3	11	27	3	0
Churchstoke ..	·872	38·6	39·1	38·8	34·5	43·4	27·5	27	56·3	13	37·3	37·7	89	89	7·7	6·5	3·33	·48	3	14	1	1	11	2	3	4	7	5	3	11	15	11	3
Cheltenham ..	·883	40·6	40·1	40·3	35·9	44·6	23·8	31	54·6	14	39·3	39·0	89	91	8·4	6·5	2·28	·51	5	21	3	1	17	3	5	7	2	1	11	12	11	7	6
Carmarthen ..	·893	41·1	40·5	40·8	35·8	46·3	28·1	29	54·0	3, 9	39·8	39·4	90	91	6·7	6·3	6·48	·89	5	21	0	4	14	2	6	3	9	1	3	18	13	2	7
Princetown	....	37·3	37·7	37·5	33·7	42·1	26·6	24	49·8	8	37·0	37·5	97	98	8·5	8·0	10·59	1·50	6	20	3	0	18	1	0	23	0	0	0	7	0	32	0
Babbacombe ..	·938	42·8	42·4	42·6	38·5	46·5	31·1	18	53·7	7, 8	41·0	40·7	86	86	8·2	7·1	3·75	·49	3	20	2	1	17	13	5	8	7	1	3	20	14	4	0
Southbourne ..	·911	42·6	41·8	42·2	38·0	46·3	31·1	25	53·3	3	40·6	39·8	85	84	7·3	5·3	3·46	·43	6	15	0	3	10	6	6	13	2	1	0	20	13	5	2
Margate	·888	41·5	41·8	41·6	37·8	45·6	29·7	1	56·0	3	39·8	40·1	86	86	7·7	7·5	2·90	·36	1	21	1	0	16	0	2	3	12	2	11	23	5	1	3
Marlborough ..	·911	38·9	38·8	38·9	35·0	43·7	28·2	30, 31	53·0	7, 13	37·6	37·5	89	89	8·2	7·5	3·11	·50	18	19	4	2	20	0	6	9	6	2	2	14	16	5	2
Harestock	·909	40·2	39·7	40·0	36·6	44·4	24·8	1	54·2	3	38·7	38·3	88	89	7·7	6·4	3·24	·45	11	16	2	2	15	0	6	9	2	1	2	20	10	4	8
Norwood	·896	40·8	40·6	40·7	37·0	45·6	28·7	30	55·3	3	39·0	38·9	85	86	7·7	7·4	2·12	·41	5	19	3	2	18	3	6	3	9	2	6	11	20	2	3
Croydon	·895	40·5	40·6	40·5	37·0	45·5	27·8	31	55·2	3	38·6	39·0	85	87	8·3	7·4	2·28	·36	5	16	6	2	18	0	5	8	5	1	2	22	13	2	4
Bennington ..	·893	39·0	38·7	38·9	35·1	43·0	27·0	31	53·3	8	37·5	37·4	87	89	8·5	6·6	2·52	·53	7	20	5	1	16	0	4	6	8	1	1	20	14	3	5
Hillington	·839	38·9	38·8	38·9	34·6	43·6	25·5	31	53·9	6	37·9	38·0	92	93	8·8	6·7	2·61	·39	20	20	2	0	16	2	2	9	5	9	2	26	6	3	0
Lowestoft	·831	40·8	40·3	40·6	36·5	44·8	29·0	31	54·5	6, 7	39·2	38·8	87	88	7·4	6·6	2·50	·68	7	18	1	2	11	3	5	3	10	3	5	16	16	4	0
Londonderry ..	·742	39·8	39·5	39·7	35·5	45·2	26·9	24	54·0	14	38·7	38·5	91	92	8·5	6·4	4·81	·58	18	24	5	1	16	0	2	1	1	8	7	23	11	8	1
Dublin	·815	41·0	41·4	41·2	37·4	45·7	27·3	22	56·4	13	39·0	39·5	84	85	6·4	5·6	2·01	·37	7	20	3	4	10	7	1	0	0	4	6	15	27	4	5
Killarney	29·860	42·3	42·9	42·6	36·7	47·9	20·2	24	57·0	5	40·5	41·3	86	87	8·1	7·2	8·18	1·19	7	23	1	1	16	7	2	6	4	1	3	8	17	8	13
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

Abstract of Climatological Observations for the Quarter ending DECEMBER 31st, 1884.

OCTOBER.

Station.	Means at 9 a.m. Temperature.	Means at 9 a.m. Humidity.	Temperature. Means. Min.	Means. Max.	Means. Range.	Means. Mean.	Extremes. Min.	Extremes. Max.	Extremes. Range.	Mean Amount of Cloud at 9 a.m.	Rain. Amount.	Rain. No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Stapleton	46·7	89	39·7	51·8	12·1	45·7	26·6	59·9	33·3	8·1	2·09	20
Scaleby	48·1	86	41·3	54·7	13·4	48·0	27·5	61·8	34·3	7·7	1·69	15
Alston	44·5	87	37·2	50·1	12·9	43·6	20·8	58·6	37·8	8·1	2·85	21
Newton-Reigny	46·0	86	40·7	52·8	12·1	46·8	28·8	58·4	29·6	7·5	2·14	17
Seathwaite ..	47·9	79	43·4	53·0	9·6	48·2	31·5	62·6	31·1	8·5	10·61	21
St. Mich.-on-Wyre	49·5	83	42·6	55·0	12·4	48·8	26·9	61·6	34·7	7·4	2·60	14
Blackpool	50·0	81	44·2	54·0	9·8	49·1	29·3	58·8	29·5	6·4	2·54	16
Bolton	47·4	83	41·9	53·0	11·1	47·4	29·5	59·6	30·1	7·5	3·79	18
Cramlington .	47·6	87	39·7	54·6	14·9	47·1	29·2	61·6	32·4	6·0	1·40	12
Rounton	47·7	85	39·6	53·9	14·3	46·7	29·9	60·8	30·9	6·2	1·34	16
Scarborough ..	49·4	83	44·3	54·7	10·4	49·5	35·9	64·3	28·4	6·0	2·08	13
Wakefield	48·3	87	40·9	55·0	14·1	48·0	30·6	61·4	30·8	6·9	1·29	11
Hodsock	48·6	80	41·1	55·5	14·4	48·3	29·6	63·7	34·1	6·0	1·00	11
Strelley	46·9	86	40·1	53·7	13·6	46·9	30·4	61·9	31·5	6·4	·88	15
Belper	46·3	86	40·9	53·1	12·2	47·0	30·9	61·1	30·2	4·4	1·33	14
Cheadle	45·8	88	41·1	52·2	11·1	46·6	30·7	61·9	31·2	6·8	1·51	15
Oakamoor	49·4	85	38·2	55·8	17·6	47·0	28·0	63·5	35·5	8·5	1·53	12
Buxton	45·5	88	38·3	51·0	12·7	44·7	24·0	57·2	33·2	7·4	3·93	19
Macclesfield ..	46·1	88	40·6	52·4	11·8	46·5	27·6	60·9	33·3	7·5	2·26	18
Chester	49·7	83	44·0	55·8	11·8	49·9	30·1	65·7	35·6	8·1	1·13	11
Churchstoke ..	48·1	85	40·5	54·9	14·4	47·7	32·0	62·7	30·7	8·2	2·01	10
Kenilworth ..	47·6	85	40·6	54·7	14·1	47·6	31·8	60·8	29·0	6·2	1·45	11
Burghill	48·9	86	40·9	56·5	15·6	48·7	28·4	64·7	36·3	6·9	·93	9
Ross	50·5	81	42·0	56·9	14·9	49·4	30·4	67·0	36·6	4·9	1·05	10
Cheltenham	48·7	84	39·3	55·3	16·0	47·3	26·2	62·2	36·0	6·7	1·11	13
Llanddulno	52·0	79	46·5	55·4	8·9	51·0	40·2	61·8	21·6	7·6	1·42	18
Carmarthen ..	50·5	85	43·0	56·3	13·3	49·6	31·6	61·4	29·8	6·8	3·96	17
.....	49·7	87	41·9	55·1	13·2	49·5	31·9	62·5	30·6	..	1·01	8

NOVEMBER.

Station.	Means at 9 a.m. Temperature.	Means at 9 a.m. Humidity.	Temperature. Means. Min.	Means. Max.	Means. Range.	Means. Mean.	Extremes. Min.	Extremes. Max.	Extremes. Range.	Mean Amount of Cloud at 9 a.m.	Rain. Amount.	Rain. No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Stapleton	38·1	90	33·1	44·3	11·2	38·7	21·3	55·6	34·3	7·0	3·08	17
Scaleby	39·9	87	34·0	46·2	12·2	40·1	21·6	58·5	36·9	7·5	1·25	18
Alston	37·3	84	31·2	43·0	11·8	37·1	16·7	54·8	38·1	6·8	2·89	18
Newton-Reigny	38·8	88	33·9	45·0	11·1	39·4	21·9	56·5	34·6	6·2	2·36	16
Seathwaite ..	40·7	85	36·8	45·0	8·2	40·9	23·2	54·1	30·9	7·0	6·50	15
St. Mich.-on-Wyre	40·6	89	34·3	47·4	13·1	40·9	21·3	61·2	39·9	6·7	1·96	15
Blackpool	42·2	87	36·6	47·4	10·8	42·0	22·7	58·6	35·9	6·0	1·89	13
Bolton	40·4	88	34·8	46·2	11·4	40·5	23·3	58·7	35·4	7·6	2·35	12
Cramlington .	40·8	91	34·9	46·3	11·4	40·6	18·6	57·8	39·2	7·4	1·94	17
Rounton	40·9	91	35·2	46·4	11·2	40·8	18·0	57·0	39·0	6·5	1·41	16
Scarborough ..	43·6	88	39·6	47·3	7·7	43·4	26·8	57·0	30·2	7·2	2·19	18
Wakefield	42·2	90	36·6	47·3	10·7	41·9	23·8	59·6	35·8	7·3	·98	14
Hodsock	41·1	88	35·4	47·4	12·0	41·4	21·8	58·6	36·8	7·0	·88	12
Strelley	39·9	91	35·0	46·0	11·0	40·5	23·3	57·1	33·8	6·5	1·20	13
Belper	40·9	86	35·9	46·1	10·2	41·0	23·6	56·6	33·0	3·8	1·23	10
Cheadle	39·6	93	35·4	45·0	9·6	40·2	24·7	55·8	31·1	7·2	1·86	18
Oakamoor	42·1	85	31·8	48·2	16·4	40·0	22·3	59·2	36·9	8·7	1·98	15
Buxton	40·4	88	32·3	43·9	11·6	38·1	20·4	54·2	33·8	6·6	2·74	17
Macclesfield ..	40·0	91	35·2	45·5	10·3	40·4	23·5	56·5	33·0	7·5	1·87	15
Chester	42·3	87	37·0	48·2	11·2	42·6	25·3	61·0	35·7	7·9	2·17	15
Churchstoke ..	41·2	88	34·6	46·9	12·3	40·8	21·8	56·9	35·1	8·2	1·53	16
Kenilworth ..	40·3	91	35·0	45·7	10·7	40·4	22·2	56·8	34·6	7·2	1·88	12
Burghill	41·7	91	35·5	48·1	12·6	41·8	23·1	59·9	36·8	7·6	1·50	13
Ross	41·8	87	37·4	47·9	10·5	42·7	25·7	60·9	35·2	6·8	1·90	17
Cheltenham	41·2	90	33·9	47·1	13·2	40·5	20·5	58·2	37·7	8·0	1·98	20
Llanddulno	45·7	81	41·0	50·1	9·1	45·5	29·2	61·0	31·8	8·0	2·23	17
Carmarthen ..	43·6	89	37·1	49·4	12·3	43·3	26·2	57·1	30·9	7·3	3·17	20
.....	43·0	87	39·0	48·7	9·7	43·9	25·8	59·2	33·4	..	2·12	16

DECEMBER.

Station.	Means at 9 a.m. Temperature.	Means at 9 a.m. Humidity.	Temperature. Means. Min.	Means. Max.	Means. Range.	Means. Mean.	Extremes. Min.	Extremes. Max.	Extremes. Range.	Mean Amount of Cloud at 9 a.m.	Rain. Amount.	Rain. No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Stapleton	36·4	91	30·9	41·4	10·5	36·2	22·4	56·5	34·1	8·3	4·50	18
Scaleby	37·0	87	33·1	42·6	9·5	37·9	21·5	54·0	32·5	8·2	3·23	17
Alston	34·1	85	28·5	39·0	10·5	33·8	14·8	48·2	33·4	8·5	6·32	20
Newton-Reigny	35·8	90	32·6	40·6	8·0	36·6	19·0	52·0	33·0	7·0	4·74	20
Seathwaite ..	38·1	83	33·9	42·5	8·6	38·2	21·9	52·0	30·1	7·3	19·09	21
St. Mich.-on-Wyre	38·2	88	34·0	43·4	9·4	38·7	23·8	52·7	28·9	7·5	4·67	19
Blackpool	39·2	87	35·2	43·1	7·9	39·2	26·0	52·5	26·5	6·8	4·03	21
Bolton	37·2	90	33·1	42·1	9·0	37·6	25·3	52·1	26·8	7·1	6·01	18
Cramlington .	37·4	88	33·0	42·0	9·0	37·5	25·0	55·2	30·2	6·8	2·05	18
Rounton	37·8	93	33·4	42·1	8·7	37·8	25·0	53·8	28·8	6·8	1·87	19
Scarborough ..	39·6	87	36·3	43·6	7·3	40·0	28·8	53·1	24·3	7·1	2·05	19
Wakefield	39·2	91	35·9	43·9	8·0	39·9	21·5	55·6	34·1	8·3	2·37	19
Hodsock	38·0	88	34·3	43·9	9·6	39·1	23·3	57·7	34·4	7·3	1·45	18
Strelley	37·3	91	33·7	42·4	8·7	38·1	25·6	52·8	27·2	7·2	2·19	17
Belper	38·0	89	34·2	42·7	8·5	38·5	24·0	53·4	29·4	4·7	3·08	16
Cheadle	36·7	91	33·2	41·8	8·6	37·5	25·5	52·4	26·9	7·4	2·92	18
Oakamoor	38·2	..	31·4	44·0	12·6	37·7	21·3	54·0	32·7	8·4	3·50	17
Buxton	36·1	91	30·9	40·5	9·6	35·7	19·0	52·7	33·7	7·1	6·17	19
Macclesfield ..	37·3	93	33·1	42·2	9·1	37·6	25·0	53·6	28·6	7·8	3·57	17
Chester	39·5	84	35·4	44·5	9·1	39·9	22·1	56·0	33·9	8·3	1·99	15
Churchstoke ..	38·6	89	34·5	43·4	8·9	38·9	27·5	56·3	28·8	7·7	3·33	14
Kenilworth ..	38·8	87	34·7	42·9	8·2	38·8	23·4	53·2	29·8	7·4	2·10	20
Burghill	39·6	88	35·6	44·9	9·3	40·3	28·6	57·7	29·1	8·2	1·96	16
Ross	40·4	83	36·8	44·8	8·0	40·8	29·8	54·6	24·8	7·6	2·59	17
Cheltenham	40·6	89	35·9	44·6	8·7	40·3	23·8	54·6	30·8	8·4	2·28	21
Llanddulno	42·3	83	38·0	45·9	7·9	42·0	27·0	55·0	28·0	7·8	2·92	17
Carmarthen ..	41·1	90	35·8	46·3	10·5	41·0	28·1	54·0	25·9	6·7	6·48	21
.....	42·0	85	38·1	45·2	7·1	41·6	31·2	53·9	22·7	..	5·87	20

Station.	OCTOBER.												NOVEMBER.												DECEMBER.											
	Means at 9 a.m.		Temperature.								Rain.		Means at 9 a.m.		Temperature.								Rain.		Means at 9 a.m.		Temperature.								Rain.	
			Means.				Extremes.			Mean Amount of Cloud at 9 a.m.					Means.				Extremes.			Mean Amount of Cloud at 9 a.m.					Means.				Extremes.			Mean Amount of Cloud at 9 a.m.		
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°	°		In.		°	%	°	°	°	°	°	°		In.	
Weston-s-Mare	51·0	83	46·1	56·8	10·7	51·5	38·9	63·8	24·9	6·6	·61	11	44·2	86	40·3	49·6	9·3	44·9	27·0	60·3	33·3	8·2	1·75	15	42·6	85	38·9	46·3	7·4	42·6	32·0	55·0	23·0	8·3	3·87	19
Ilfracombe ..	53·6	86	50·1	57·1	7·0	53·6	41·3	60·7	19·4	7·7	1·99	18	47·9	87	44·4	51·6	7·2	48·0	33·7	58·2	24·5	7·5	2·27	16	45·1	87	41·4	48·8	7·4	45·1	32·7	56·2	23·5	8·5	5·35	18
Bude	52·2	89	45·7	57·4	11·7	51·6	33·6	62·9	29·3	7·0	2·27	14	44·7	89	39·3	50·7	11·4	45·0	25·6	57·9	32·3	6·9	2·31	13	44·3	90	40·1	47·6	7·5	43·8	28·1	55·5	27·4	8·1	6·22	18
Falmouth	53·8	80	48·3	57·2	8·9	52·8	40·2	62·5	22·3	6·7	1·96	19	47·6	83	44·0	51·1	7·1	47·5	35·2	59·0	23·8	7·8	2·61	19	45·1	82	41·2	48·7	7·5	45·0	32·1	55·2	23·1	8·4	5·09	22
Maker	51·4	85	46·2	57·5	11·3	51·9	35·4	64·8	29·4	6·9	1·67	19	45·0	87	41·4	50·0	8·6	45·7	30·6	58·2	27·6	7·8	1·85	18	43·1	86	39·7	46·7	7·0	43·2	31·2	53·0	21·8	8·0	4·11	22
Princetown	46·8	91	42·0	50·1	8·1	46·1	32·8	54·8	22·0	6·9	4·22	24	40·6	94	36·5	44·1	7·6	40·3	28·9	52·4	23·5	7·8	4·22	15	37·3	97	33·7	42·1	8·4	37·9	26·6	49·8	23·2	8·5	10·59	20
Ashburton	52·2	84	45·5	58·0	12·5	51·8	35·3	64·0	28·7	..	1·34	12	44·7	89	40·7	50·0	9·3	45·3	29·4	60·0	30·6	7·4	2·75	16	41·1	91	37·2	46·1	8·9	41·7	29·9	53·6	23·7	7·9	7·32	20
Bridgetown....	51·0	86	41·4	58·8	17·4	50·1	29·1	64·8	35·7	6·5	1·27	14	43·7	91	37·7	51·2	13·5	44·4	23·9	61·1	37·2	7·9	2·25	15	42·4	88	37·6	47·2	9·6	42·4	28·1	55·1	27·0	8·2	6·01	20
Torquay	52·0	81	46·0	56·9	10·9	51·4	36·3	62·8	26·5	7·2	·82	11	46·0	86	41·8	49·9	8·1	45·9	27·8	58·7	30·9	8·1	1·33	13	43·8	83	39·7	47·5	7·8	43·6	32·3	54·7	22·4	8·4	3·14	20
Babbacombe ..	52·3	81	45·5	57·0	11·5	51·2	36·3	63·6	27·3	6·8	·90	13	45·5	86	40·9	49·9	9·0	45·4	26·5	58·7	32·2	7·9	1·55	14	42·8	86	38·5	46·5	8·0	42·5	31·1	53·7	22·6	8·2	3·75	20
Teignmouth, B.	51·5	..	44·8	57·7	12·9	51·3	36·0	64·2	28·2	6·5	·80	10	45·4	87	41·5	50·3	8·8	45·9	28·4	58·8	30·4	7·2	1·31	13	43·1	92	38·9	47·4	8·5	43·1	31·4	54·9	23·5	8·1	2·94	19
Teignmouth, W.	52·7	80	45·2	59·1	13·9	52·1	36·0	67·1	31·1	5·9	·96	13	45·7	85	40·9	50·4	9·5	45·7	28·0	60·9	32·9	7·4	1·35	17	42·3	87	37·7	46·9	9·2	42·3	29·5	54·8	25·3	8·4	3·29	21
Sidmouth	51·6	88	45·3	56·9	11·6	51·1	34·1	63·1	29·0	7·6	·93	14	44·4	91	40·2	49·5	9·3	44·8	25·7	59·1	33·4	8·3	1·39	16	42·7	87	38·3	46·9	8·6	42·6	30·5	55·8	25·3	9·0	3·29	18
Brampford Spk.	50·4	86	43·2	56·4	13·2	49·8	32·8	64·1	31·3	7·5	·87	15	42·9	92	38·5	48·3	9·8	43·4	25·4	57·9	32·5	7·3	1·97	18	41·3	89	36·7	46·2	9·5	41·4	25·1	56·1	31·0	8·5	3·81	20
Cullompton ..	50·2	85	41·9	57·2	15·3	49·6	28·4	63·6	35·2	7·6	·96	16	42·5	91	37·2	49·1	11·9	43·1	21·4	58·6	37·2	7·8	2·15	17	41·3	86	36·6	46·4	9·8	41·5	27·3	55·9	28·6	7·9	4·30	19
Stowell	48·5	88	41·6	54·7	13·1	48·2	31·8	62·3	30·5	6·0	1·02	16	41·4	91	36·3	47·0	10·7	41·6	21·2	57·4	36·2	8·1	1·89	16	40·4	89	35·9	44·5	8·6	40·2	26·8	53·7	26·9	8·1	3·43	20
Weymouth	53·0	78	46·6	57·5	10·9	52·1	36·3	62·5	26·2	6·3	1·01	9	45·9	84	41·4	49·7	8·3	45·5	28·2	59·7	31·5	8·2	1·42	9	44·0	82	39·7	47·2	7·5	43·5	32·0	54·5	22·5	7·7	3·57	17
Southbourne ..	51·7	83	43·6	57·5	13·9	50·5	33·7	65·1	31·4	4·9	1·29	10	43·3	87	38·1	48·6	10·5	43·4	24·3	60·2	35·9	6·9	·91	11	42·6	85	38·0	46·3	8·3	42·1	31·1	53·3	22·2	7·3	3·46	15
Southampton..	50·4	83	41·5	57·9	16·4	49·7	29·1	66·8	37·7	6·1	·93	15	42·7	87	36·4	48·3	11·9	42·4	21·9	60·8	38·9	7·6	1·65	12	40·9	88	36·1	45·3	9·2	40·7	26·0	55·0	29·0	7·6	3·48	20
Portsmouth ..	50·9	87	45·3	59·1	13·8	52·2	36·4	68·5	32·1	5·5	1·15	13	43·3	92	39·6	49·3	9·7	44·5	25·8	61·6	35·8	5·8	·54	12	42·3	88	38·5	46·1	7·6	42·3	29·1	55·0	25·9	7·2	3·23	20
Ventnor	53·4	78	47·3	59·0	11·7	53·2	36·9	64·0	27·1	5·6	1·26	12	45·7	83	42·2	50·6	8·4	46·4	29·5	61·7	32·2	6·7	·53	7	43·4	85	39·7	47·6	7·9	43·7	32·9	54·4	21·5	7·7	4·84	19
Worthing	51·5	85	44·7	57·7	13·0	51·2	36·7	66·4	29·7	6·0	1·72	8	43·7	86	39·9	48·5	8·6	44·2	27·0	58·9	31·9	5·7	1·07	7	42·5	89	38·4	46·2	7·8	42·3	29·0	53·7	24·7	6·5	4·07	18
Hastings	50·2	88	44·7	58·3	13·6	51·5	37·3	68·2	30·9	6·0	2·62	13	43·1	87	39·2	49·2	10·0	44·2	27·7	62·4	34·7	6·5	1·29	8	41·9	90	37·6	46·2	8·6	41·9	30·0	55·7	25·7	7·6	5·02	24
Ramsgate	50·9	84	44·2	56·5	12·3	50·3	36·0	62·6	26·6	5·8	2·78	10	43·0	84	39·7	48·0	8·3	43·9	30·0	61·3	31·3	6·6	1·33	8	41·2	88	36·7	45·7	9·0	41·2	29·3	54·8	25·5	7·9	3·09	22
Margate	50·8	83	45·0	55·6	10·6	50·3	36·3	61·1	24·8	6·2	2·79	12	43·7	83	40·5	48·4	7·9	44·5	29·8	60·2	30·4	7·2	1·03	9	41·5	86	37·8	45·6	7·8	41·7	29·7	56·0	26·3	7·7	2·90	21
Southend	50·2	93	43·7	..	..	..	33·0	..	..	6·4	1·25	10	41·9	94	38·5	..	..	..	26·9	..	..	8·1	·75	7	40·6	92	37·1	..	..	..	31·0	..	..	7·6	1·90	18

Abstract of Climatological Observations for the Quarter ending DECEMBER 31st, 1884.

Station.	OCTOBER.												NOVEMBER.												DECEMBER.											
	Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.		Means at 9 a.m.		Temperature.								Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes.								Means.				Extremes.								Means.				Extremes.						
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	o/o	°	°	°	°	°	°	°		In.		°	o/o	°	°	°	°	°	°	°		In.		°	o/o	°	°	°	°	°	°	°		In.	
Marlborough ..	48·0	87	39·6	56·0	16·4	47·8	30·0	64·0	34·0	6·3	1·01	11	39·6	94	34·5	46·1	11·6	40·3	20·5	57·2	36·7	7·6	1·94	16	38·9	89	35·0	43·7	8·7	39·3	28·2	53·0	24·8	8·2	3·11	19
Strathfield T...	..	..	..	58·1	..	..	..	65·2	..	..	·83	10	41·3	86	35·1	48·0	12·9	41·5	21·2	60·6	39·4	6·5	1·49	12	40·7	89	35·4	45·7	10·3	40·6	24·2	55·4	31·2	7·8	2·27	18
Harestock	49·0	85	41·5	56·3	14·8	48·9	28·8	63·7	34·9	6·4	·85	9	41·1	90	36·2	47·0	10·8	41·6	21·5	59·4	37·9	7·8	1·81	11	40·2	88	36·6	44·4	7·8	40·5	24·8	54·2	29·4	7·7	3·24	16
Swarraton	48·2	87	39·7	55·7	16·0	47·7	25·5	62·5	37·0	6·9	·92	11	40·6	91	35·7	46·8	11·1	41·3	23·3	59·5	36·2	7·3	1·81	9	40·0	87	36·1	44·3	8·2	40·2	24·3	54·6	30·3	7·9	3·21	17
Tunb. Wells ..	48·5	86	42·0	54·7	12·7	48·3	31·9	62·7	30·8	6·6	1·28	13	40·2	92	36·5	45·7	9·2	41·1	24·7	58·9	34·2	7·7	·90	10	39·4	90	35·4	43·3	7·9	39·4	25·8	53·0	27·2	7·5	4·04	19
Tunbridge	49·0	86	42·0	56·6	14·6	49·3	30·3	63·8	33·5	5·8	1·37	13	41·0	91	36·5	47·3	10·8	41·9	25·5	60·5	35·0	6·6	·88	8	40·7	89	36·8	45·1	8·3	40·9	28·7	55·5	26·8	7·0	3·06	18
Beddington....	48·5	85	40·5	56·1	15·6	48·3	31·1	62·3	31·2	6·3	1·32	13	40·5	88	35·1	47·1	12·0	41·1	20·2	60·1	39·9	7·3	1·37	13	40·6	85	36·5	45·1	8·6	40·8	28·4	55·2	26·8	7·9	2·18	19
Croydon	48·8	83	41·9	56·0	14·1	48·9	31·1	62·0	30·9	7·4	1·20	12	41·0	88	36·1	47·3	11·2	41·7	25·2	60·4	35·2	7·9	1·57	12	40·5	85	37·0	45·5	8·5	41·3	27·8	55·2	27·4	8·3	2·28	16
South Norwood.	49·2	84	42·0	56·4	14·4	49·2	33·8	62·1	28·3	7·5	1·41	12	41·6	89	36·9	47·3	10·4	42·1	25·1	59·8	34·7	8·1	1·32	12	40·6	86	36·8	45·1	8·3	41·0	28·2	55·3	27·1	8·3	2·15	17
Norwood	48·9	84	42·2	56·3	14·1	49·3	33·0	62·5	29·5	6·5	1·17	12	41·6	88	36·7	47·4	10·7	42·0	24·0	60·5	36·5	7·0	1·30	12	40·8	85	37·0	45·6	8·6	41·3	28·7	55·3	26·6	7·7	2·12	19
Isleworth	48·7	83	40·7	57·0	16·3	48·9	30·1	64·0	33·9	5·7	1·06	10	41·3	88	36·1	47·7	11·6	41·9	23·4	60·4	37·0	6·3	1·72	11	40·6	87	36·3	45·3	9·0	40·8	26·8	55·1	28·3	8·0	2·13	18
S. Kensington	50·0	78	43·8	56·6	12·8	50·2	34·5	63·3	28·8	6·7	1·04	10	43·0	83	38·7	47·7	9·0	43·2	27·2	59·9	32·7	7·4	1·70	10	41·6	83	37·9	45·8	7·9	41·9	30·0	55·5	25·5	8·0	2·42	17
London, Old St.	50·0	79	44·9	57·2	12·3	51·0	37·4	63·2	25·8	8·5	·99	12	43·2	83	39·9	48·0	8·1	44·0	29·7	60·5	30·8	9·0	1·74	14	41·8	83	38·5	45·9	7·4	42·2	30·4	55·4	25·0	9·6	2·73	21
Regent's Park..	48·7	83	42·3	56·5	14·2	49·4	33·2	62·7	29·5	..	1·03	10	42·0	86	37·7	47·6	9·9	42·6	25·0	59·9	34·9	..	1·94	12	41·0	84	36·7	45·6	8·9	41·2	29·2	55·8	26·6	..	2·53	19
Finchley	48·0	87	39·8	55·6	15·8	47·7	27·1	61·7	34·6	5·7	1·07	10	40·9	91	35·4	46·0	10·6	40·7	22·0	58·8	36·8	7·7	2·17	10	39·6	88	34·7	44·2	9·5	39·4	26·9	53·5	26·6	7·1	3·23	20
Watford	47·9	83	40·5	55·9	15·4	48·2	29·4	62·4	33·0	5·8	1·15	12	41·1	90	36·5	47·0	10·5	41·8	24·1	59·7	35·6	6·8	2·26	12	39·5	88	35·6	44·2	8·6	39·9	25·9	53·9	28·0	7·4	3·37	19
Bennington	48·6	83	41·4	54·9	13·5	48·2	33·0	60·9	27·9	7·8	1·38	10	40·7	89	36·0	45·2	9·2	40·6	26·0	57·8	31·8	8·0	1·59	14	39·0	87	35·1	43·0	7·9	39·0	27·0	53·3	26·3	8·5	2·52	20
Throcking	47·8	90	41·6	54·7	13·1	48·2	33·3	60·4	27·1	6·4	1·03	11	39·9	95	35·6	44·9	9·3	40·2	25·1	58·4	33·3	7·1	1·65	13	38·0	95	34·4	42·1	7·7	38·3	26·4	52·0	25·6	8·5	2·42	19
Aspley Guise ..	49·3	81	41·4	54·6	13·2	48·0	32·6	61·2	28·6	6·2	1·09	10	41·0	91	35·6	45·3	9·7	40·5	21·7	58·8	37·1	6·6	1·28	13	38·5	93	34·5	42·6	8·1	38·5	23·6	53·0	29·4	7·7	2·34	19
Boston, 4 feet	48·5	88	42·1	54·8	12·7	48·5	32·0	61·6	29·6	4·5	·99	8	41·1	88	36·8	46·1	9·3	41·4	25·1	58·9	33·8	6·1	1·60	9	38·9	88	35·5	43·7	8·2	39·6	26·1	54·8	28·7	6·2	1·86	14
,, 170 ,,	48·0	88	42·4	53·8	11·4	48·1	34·0	62·1	28·1	..	..	..	40·8	93	37·0	45·4	8·4	41·2	24·0	57·5	33·5	..	..	..	38·9	94	35·2	43·0	7·8	39·1	25·0	58·8	33·8	..	..	..
Hillington	48·9	88	40·8	55·3	14·5	48·0	30·8	62·4	31·6	7·2	2·67	11	40·8	91	35·0	46·3	11·3	40·7	22·4	59·2	36·8	7·5	2·13	19	38·9	92	34·6	43·6	9·0	39·1	25·5	53·9	28·4	8·8	2·61	20
Cromer	50·1	90	44·0	55·4	11·4	49·7	31·8	61·9	30·1	6·4	2·71	9	43·5	92	38·4	47·9	9·5	43·2	27·8	59·4	31·6	6·3	2·41	16	40·3	88	35·9	44·9	9·0	40·4	23·8	54·8	31·0	7·6	2·02	15
Somerleyton ..	50·0	86	43·0	56·3	13·3	49·7	30·1	62·8	32·7	6·1	3·98	11	41·7	89	37·8	47·2	9·4	42·5	22·9	58·8	35·9	7·3	2·10	17	40·6	88	36·3	45·5	9·2	40·9	26·1	55·1	29·0	7·5	2·21	17
Lowestoft	50·4	83	43·6	56·0	12·4	49·8	34·0	62·5	28·5	7·2	3·32	13	42·4	87	38·2	47·6	9·4	42·9	24·0	58·8	34·8	7·1	1·80	19	40·8	87	36·5	44·8	8·3	40·6	29·0	54·5	25·5	7·4	2·50	18
Guernsey	..	..	..	..	..	..	..	..	..	..	1·97	..	47·3	83	44·7	50·8	6·1	47·8	31·9	59·9	28·0	6·2	1·76	11	45·5	87	42·3	48·3	6·0	45·3	34·7	55·5	20·8	8·3	6·43	23
Londonderry ..	48·8	83	43·3	55·2	11·9	49·2	35·5	63·7	28·2	8·1	4·35	21	42·0	91	36·7	48·2	11·5	42·5	28·8	55·5	26·7	7·9	5·07	23	39·8	91	35·5	45·2	9·7	40·3	26·9	54·0	27·1	8·5	4·81	24
Dublin	49·1	83	44·6	55·9	11·3	50·2	33·8	64·5	30·7	5·1	·84	14	43·4	85	39·1	48·6	9·5	43·9	31·1	58·6	27·5	5·8	1·41	14	41·0	84	37·4	45·7	8·3	41·5	27·3	56·4	29·1	6·4	2·01	20
Killarney	51·0	87	43·1	56·4	13·3	49·7	31·3	62·4	31·1	7·3	4·53	21	42·0	89	35·0	48·6	13·6	41·8	21·0	56·5	35·5	7·4	5·29	21	42·3	86	36·7	47·9	11·2	42·3	20·2	57·0	36·8	8·1	8·18	23

Abstract of Meteorological Observations for the YEAR 1884.

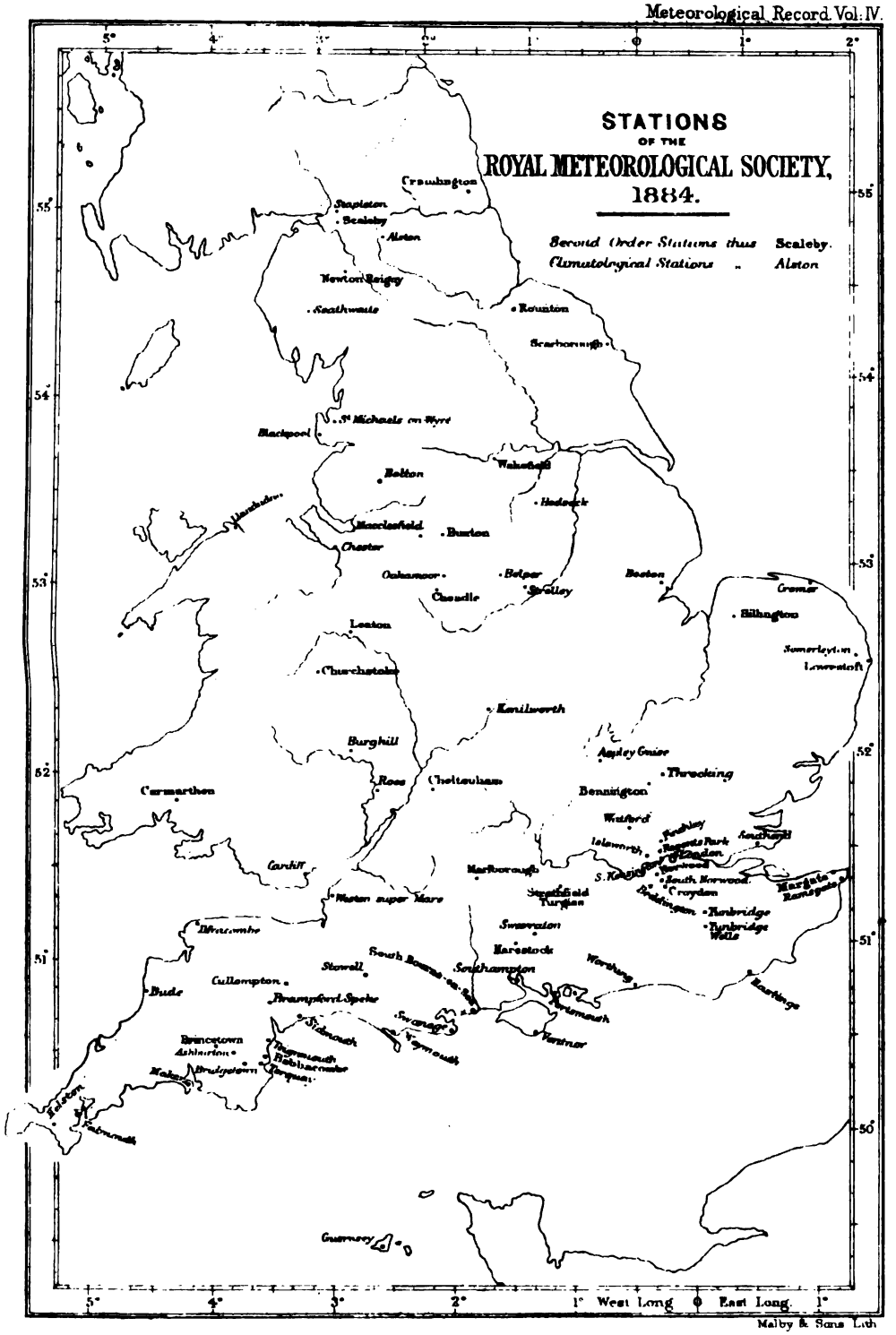
Station.	Mean of Pressures at 9 a.m. and 9 p.m.	Air Temperature.									Wet Bulb Therm.		Relative Humid.		Amount of Cloud.		Rainfall.			Weather, No. of days of					Wind, No. of Observations of								
		9 a.m.	9 p.m.	Mean.	Means of		Absolute Min. and Max.				9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Total Fall.	Greatest Fall in 24 hours.		Rain, Snow or Hail.	Snow only.	Clear Sky.	Overcast.	Gales.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
					Min.	Max.	Min.	Date.	Max.	Date.								Amnt.	Date.														
	In.	°	°	°	°	°	°		°		°	°	o/o	o/o	°	°	In.	In.														
Scaleby	29·908	48·6	46·4	47·5	41·1	55·5	21·5	Dec. 26	83·0	Aug. 8	..	..	..	..	..	..	30·43	1·00	July 10	197	11	31	139	52	31	44	119	46	38	243	60	19	132
Newton-Reigny	....	..	..	..	..	..	19·0	,, 26	80·8	,, 8	..	..	..	..	..	..	37·62	1·07	Jan. 22	201	..	..	..	..	..	..	..	..	..	..	..	..	..
Cramlington ..	·912	47·6	45·5	46·5	40·3	53·8	18·6	Nov. 30	80·5	,, 24	45·5	44·2	85	90	7·2	6·1	22·76	·75	July 13	181	26	15	132	6	36	108	27	77	44	179	128	133	0
Rounton	·933	48·2	46·3	47·3	40·4	54·5	18·0	,, 30	81·8	,, 11, 24	46·0	44·9	85	89	6·3	6·0	20·42	·75	Mar. 4	180	24	38	109	35	63	42	22	66	132	179	44	99	85
Scarborough ..	·939	49·7	48·3	49·0	44·1	54·2	26·8	,, 30	78·7	June 13	47·0	46·3	81	86	6·4	6·0	21·36	·85	Feb. 1	182	13	23	106	4	68	74	33	74	64	151	150	83	35
Wakefield	·955	49·5	48·2	48·8	42·2	56·2	21·5	Dec. 27	86·4	Aug. 11	47·1	46·6	84	88	7·2	6·2	20·79	1·09	July 9	170	7	28	137	..	76	73	89	71	79	118	170	56	0
Buxton	·970	47·3	44·3	45·8	38·5	53·3	19·0	Feb. 29 / Dec. 27	82·1	,, 11	44·7	42·9	82	89	7·1	5·9	44·96	1·10	Sept. 21	178	36	16	109	1	7	41	76	85	50	169	140	145	19
Cheadle	·975	46·9	46·5	46·7	41·2	54·2	24·7	Nov. 30	83·1	,, 11	44·9	44·8	86	88	6·8	5·5	27·04	1·25	Aug. 31	176	26	35	109	22	73	31	124	74	80	116	100	98	36
Llandudno	·947	51·5	49·8	50·7	45·2	55·6	27·0	Dec. 29	81·0	June 28	48·2	47·3	78	83	7·1	5·8	27·09	·91	July 5	169	6	39	143	16	56	43	56	49	66	152	243	67	0
Churchstoke ..	·989	48·7	46·7	47·7	40·7	55·6	21·8	Nov. 30	86·1	Aug. 11	46·0	44·9	82	86	7·5	6·2	28·04	·89	Aug. 31	159	23	18	147	10	24	41	58	118	55	138	157	105	36
Cheltenham ..	....	50·4	..	..	41·8	56·8	20·5	,, 30	87·8	,, 8	..	..	..	..	7·0	..	24·04	1·62	June 28	190	12	..	..	..	..	..	..	..	..	..	..	..	..
Carmarthen ..	29·981	51·4	48·3	49·8	43·4	56·6	26·1	Feb. 3	81·0	,, 24	48·3	46·4	80	86	7·0	6·0	51·75	1·43	Aug. 31	208	7	43	141	14	58	24	97	40	53	153	109	36	162
Babbacombe ..	30·021	51·9	49·3	50·6	45·3	56·6	26·5	Nov. 30	79·7	,, 8	48·8	47·2	80	85	6·9	6·1	29·76	1·38	Mar. 3	176	8	32	142	48	57	114	77	36	78	162	125	69	14
Southbourne ..	·007	51·5	49·5	50·5	44·5	56·4	24·3	,, 30	80·2	,, 10	48·7	47·4	81	86	6·0	4·9	24·71	1·25	,, 3	146	0	63	95	17	98	95	41	37	45	149	99	97	71
Margate	·009	51·6	49·7	50·7	45·5	56·6	29·1	Mar. 3	85·1	,, 2	48·4	47·4	79	84	6·4	5·2	20·34	1·09	Sept. 4	146	2	62	121	3	51	57	79	80	96	163	94	41	71
Marlborough ..	·012	49·6	47·2	48·4	41·6	56·5	20·5	Nov. 30	87·6	,, 8	47·0	45·6	83	88	7·5	5·9	27·12	1·14	June 28	178	11	38	163	..	61	48	102	43	75	122	143	49	89
Harestock	·011	50·1	47·6	48·8	42·3	56·6	21·5	,, 30	85·6	,, 8	47·1	45·5	81	85	7·1	5·7	24·28	1·47	Mar. 3	149	6	53	155	1	49	63	26	31	67	148	95	51	202
Norwood	·009	51·0	49·0	50·0	43·5	58·2	24·0	,, 25	89·7	,, 11	47·6	46·6	79	83	6·7	5·5	19·05	·98	June 5	163	11	55	129	8	59	47	90	21	99	114	168	44	90
Croydon	30·010	50·8	48·6	49·7	43·1	57·7	25·2	,, 25	88·8	,, 11	47·4	46·3	78	84	7·1	5·4	19·69	1·01	,, 5	149	14	61	134	4	53	84	61	26	90	180	118	44	76
Bennington ..	....	..	..	..	..	..	26·0	,, 30	87·0	,, 11	..	..	..	..	..	..	20·06	1·60	July 9	151	..	..	..	..	..	..	..	..	..	..	..	..	..
Hillington	29·975	50·9	47·0	49·0	41·5	57·7	22·4	,, 24	93·4	,, 11	..	..	..	..	7·2	6·2	22·53	1·21	Aug. 31	158	11	28	152	12	40	112	52	115	58	210	63	82	0
Lowestoft	·971	50·7	48·6	49·7	..	..	24·0	,, 30	79·4	,, 2	48·0	46·8	82	87	6·6	5·9	22·32	2·16	Sept. 4	164	3	47	126	12	40	84	71	70	57	107	177	116	10
Londonderry ..	·900	49·7	47·5	48·6	42·5	56·0	26·9	Dec. 24	81·1	June 28	47·0	45·8	82	87	7·7	6·5	43·33	1·01	Nov. 4	246	20	24	169	4	47	32	39	71	153	207	91	68	24
Dublin.....	·941	50·6	49·7	50·2	45·0	56·1	27·3	,, 22	75·4	,, 13	47·4	47·0	79	81	6·5	5·7	20·47	·86	April 4	187	13	35	101	30	32	25	59	80	100	129	200	69	38
Killarney	29·944	50·7	48·7	49·7	43·1	56·0	20·2	,, 24	73·7	May 24	48·4	47·1	84	88	7·6	6·9	63·16	1·89	Feb. 20	239	10	13	147	39	33	35	45	58	69	111	132	77	172
Columns ..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

Abstract of Climatological Observations for the YEAR 1884.

Station.	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Stapleton	47·6	85	39·8	53·5	13·7	46·7	21·3	81·7	60·4	7·8	41·24	221
Scaleby	48·6	..	41·1	55·5	14·4	48·3	21·5	83·0	61·5	7·4	30·43	197
Alston	45·7	82	36·9	51·9	15·0	44·4	14·8	81·8	67·0	7·4	47·68	235
Newton-Reigny	..	..	..	..	..	..	19·0	80·8	61·8	..	37·62	201
Seathwaite	48·4	78	42·6	53·9	11·3	48·2	21·9	82·0	60·1	7·5	134·10	230
St. Michael's-on-Wyre	49·9	80	41·8	56·0	14·2	48·9	21·3	84·9	63·6	7·5	34·73	194
Blackpool	49·8	82	42·8	54·5	11·7	48·7	22·7	82·9	60·2	6·3	30·63	201
Bolton	48·1	82	41·6	54·4	12·8	48·0	23·3	83·3	60·0	7·5	41·46	188
Cramlington	47·6	85	40·3	53·8	13·5	47·1	18·6	80·5	61·9	7·2	22·76	181
Rounton	48·2	85	40·4	54·5	14·1	47·5	18·0	81·8	63·8	6·3	20·42	180
Scarborough	49·7	81	44·1	54·2	10·1	49·2	26·8	78·7	51·9	6·4	21·36	182
Wakefield	49·5	84	42·2	56·2	14·0	49·2	21·5	86·4	64·9	7·2	20·79	170
Hodsock	49·6	79	41·1	56·7	15·6	48·9	21·6	85·0	63·4	6·6	19·31	158
Strelley	48·5	83	41·0	55·7	14·7	48·4	23·3	85·9	62·6	6·6	21·35	163
Belper	48·0	84	41·7	55·1	13·4	48·4	23·6	83·2	59·6	4·2	28·10	162
Cheadle	46·9	86	41·2	54·2	13·0	47·7	24·7	83·1	58·4	6·8	27·04	176
Oakamoor	..	..	..	..	..	..	..	..	..	8·3	..	..
Buxton	47·3	82	38·5	53·3	14·8	45·9	19·0	82·1	63·1	7·1	44·96	178
Macclesfield	48·0	84	41·7	54·6	12·9	48·1	23·5	83·9	60·4	6·7	31·21	168
Chester	50·7	78	43·2	57·2	14·0	50·2	22·1	87·5	65·4	8·0	24·85	154
Churchstoke	48·7	82	40·7	55·6	14·9	48·2	21·8	86·1	64·3	7·5	28·04	159
Kenilworth	49·2	82	41·6	55·9	14·3	48·8	22·2	85·2	63·0	6·8	22·21	171
Burghill	50·5	82	42·0	58·1	16·1	50·1	23·1	88·2	65·1	7·2	21·89	155
Ross	51·2	78	42·8	58·1	15·3	50·5	25·7	86·0	60·3	6·1	26·92	179
Cheltenham	50·4	..	41·8	56·8	15·0	49·3	20·5	87·8	67·3	7·0	24·04	190
Llandudno	51·5	78	45·2	55·6	10·4	50·4	27·0	81·0	54·0	7·1	27·09	169
Carmarthen	51·4	80	43·4	56·6	13·2	50·0	26·1	81·0	54·9	7·0	51·75	208
Cardiff	50·8	83	44·8	56·3	11·5	50·6	25·8	82·8	57·0	..	37·25	192
Weston-super-Mare	51·5	81	46·1	57·1	11·0	51·6	27·0	84·9	57·9	7·0	26·96	181
Ilfracombe	52·7	85	48·4	56·8	8·4	52·6	32·7	83·4	50·7	6·9	31·56	186
Bude	51·7	88	45·2	57·1	11·9	51·2	25·6	85·0	59·4	6·3	30·00	155
Falmouth	53·1	80	47·4	56·7	9·3	52·1	31·7	76·0	44·3	7·1	37·70	211
Maker	51·4	84	46·2	56·9	10·7	51·5	29·4	83·0	53·6	6·7	27·29	210
Ashburton	51·3	86	44·8	56·9	12·1	50·9	29·2	81·2	52·0	..	46·06	187
Bridgetown	52·6	81	42·9	58·9	16·0	50·9	23·9	84·6	60·7	6·9	39·24	188
Torquay	52·0	81	45·9	56·4	10·5	51·1	27·8	79·5	51·7	6·5	26·60	163
Babbacombe	51·9	80	45·3	56·6	11·3	51·0	26·5	79·7	53·2	6·9	29·76	176
Teignmouth, B.	52·0	..	46·0	57·6	11·6	51·8	28·4	79·4	51·0	6·9	26·75	156
Teignmouth, W.	52·7	80	45·0	58·4	13·4	51·7	28·0	81·6	53·6	6·7	29·09	184
Sidmouth	51·6	84	45·1	56·1	11·0	50·6	25·7	78·7	53·0	7·7	31·14	203

ABSTRACT OF CLIMATOLOGICAL OBSERVATIONS FOR THE YEAR 1884.

Station.	Means at 9 a.m.		Temperature.							Mean Amount of Cloud at 9 a.m.	Rain.	
			Means.				Extremes.					
	Temperature.	Humidity.	Min.	Max.	Range.	Mean.	Min.	Max.	Range.		Amount.	No. of Days.
	°	%	°	°	°	°	°	°	°		In.	
Brampford Speke	51·0	85	43·7	57·0	13·3	50·4	25·1	80·1	55·0	7·0	30·10	191
Cullompton	51·3	80	42·6	57·5	14·9	50·0	21·4	84·2	62·8	7·1	31·43	188
Stowell	49·7	84	42·6	55·6	13·0	49·1	21·2	84·1	62·9	7·2	31·79	215
Weymouth	52·1	80	46·5	56·6	10·1	51·6	28·2	79·0	50·8	5·9	24·93	148
Southbourne on Sea ..	51·5	81	44·5	56·4	11·9	50·5	24·3	80·2	55·9	6·0	24·71	146
Southampton.....	51·4	81	42·5	58·1	15·6	50·3	21·9	85·6	63·7	7·0	25·57	187
Portsmouth	52·1	82	45·9	58·9	13·0	52·4	25·8	87·8	62·0	5·3	21·58	162
Ventnor	52·7	79	47·2	57·9	10·7	52·6	29·5	83·0	53·5	6·4	24·91	139
Worthing	52·0	81	45·6	56·8	11·2	51·2	27·0	83·3	56·3	5·8	23·51	126
Hastings	50·9	..	45·5	..	..	..	27·7	..	..	6·0	29·15	179
Ramsgate	51·5	80	44·9	57·1	12·2	51·0	27·0	82·6	55·6	6·4	19·89	140
Margate	51·6	79	45·5	56·6	11·1	51·1	29·1	85·1	56·0	6·4	20·34	146
Southend	51·9	..	44·7	..	..	..	26·9	..	..	6·8	16·56	131
Marlborough	49·6	83	41·6	56·5	14·9	49·1	20·5	87·6	67·1	7·5	27·12	178
Strathfield Turgiss ..	..	..	..	..	..	..	..	..	..	..	21·42	134
Harestock	50·1	81	42·3	56·6	14·3	49·5	21·5	85·6	64·1	7·1	24·28	149
Swarraton	49·6	83	41·5	56·5	15·0	49·0	22·1	87·0	64·9	7·1	24·74	137
Tunbridge Wells	50·0	83	..	..	..	..	24·7	87·4	62·7	6·8	23·42	149
Tunbridge	..	..	..	..	..	..	25·2	90·2	65·0	6·1	21·20	139
Beddington	50·9	79	42·1	58·0	15·9	50·0	20·2	91·7	71·5	6·8	18·36	153
Croydon	50·8	78	43·1	57·7	14·6	50·4	25·2	88·8	63·6	7·1	19·69	149
South Norwood	50·9	80	43·1	57·9	14·8	50·5	24·5	89·2	64·7	7·1	18·97	144
Norwood	51·0	79	43·5	58·2	14·7	50·9	24·0	89·7	65·7	6·7	19·05	163
Isleworth	51·1	78	42·8	58·7	15·9	50·8	23·4	91·2	67·8	6·8	18·72	152
South Kensington....	..	..	..	..	..	..	27·2	89·5	62·3	..	..	..
London, Old Street ..	51·6	77	46·0	58·4	12·4	52·2	29·7	90·0	60·3	8·2	20·68	185
Regent's Park	50·6	80	44·3	58·5	14·2	51·4	25·0	91·8	66·8	..	19·52	147
Finchley	50·0	85	..	56·8	..	..	22·0	89·7	67·7	6·8	22·66	150
Watford	..	..	..	..	..	..	23·7	89·9	66·2	..	22·35	152
Bennington.....	..	..	..	..	..	..	26·0	87·0	61·0	..	20·06	151
Throcking	49·2	87	..	..	..	..	25·1	87·7	62·6	6·5	18·39	138
Aspley Guise	50·4	82	41·8	56·7	14·9	49·3	21·7	88·0	66·3	6·7	18·65	154
Hillington	50·9	..	41·5	57·7	16·2	49·6	22·4	93·4	71·0	7·2	22·53	158
Cromer	50·9	..	43·6	56·6	13·0	50·1	23·8	90·9	67·1	5·9	23·59	137
Somerleyton	50·6	82	43·4	56·3	12·9	49·9	22·9	82·7	59·8	6·3	23·52	152
Lowestoft	50·7	82	..	..	..	..	24·0	79·4	55·4	6·6	22·32	164
Guernsey	..	..	..	..	..	..	31·9	82·9	51·0	..	31·37	..
Londonderry	49·7	82	42·5	56·0	13·5	49·3	26·9	81·1	54·2	7·7	43·33	246
Dublin	50·6	79	45·0	56·1	11·1	50·6	27·3	75·4	48·1	6·5	20·47	187
Killarney	50·7	84	43·1	56·0	12·9	49·6	20·2	73·7	53·5	7·6	63·16	239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